

PUBLIC WORKS SERVICES
DEPARTMENT



MUNICIPAL SERVICES CENTER (MSC)
1400 Broadway Street
Redwood City, CA 94063-2505
Telephone: (650) 780-7466
www.redwoodcity.org/publicworks

September 28, 2018

Mr. Bruce H. Wolfe
Executive Officer
San Francisco Bay Regional Water Quality Control Board
1515 Clay Street, Suite 1400
Oakland, CA 94612

Subject: **City of Redwood City**
FY 2017/18 Annual Report

Dear Mr. Wolfe:

This letter and Annual Report with attachments is submitted by the City of Redwood City pursuant to Permit Provision C.17.a of the Municipal Regional Stormwater NPDES Permit (MRP), Order R2-2015-0049, NPDES Permit No CAS612008 issued by the San Francisco Bay Regional Water Quality Control Board. The Annual Report provides documentation of compliance activities conducted during FY 2017/18 and related accomplishments.

Please contact Terence Kyaw at 650-780-7466 regarding any questions or concerns.

Very truly yours,

A handwritten signature in black ink, appearing to read "T. Kyaw", written in a cursive style.


Terence Kyaw
Public Works Services Director

**CITY OF REDWOOD CITY
FY 2016/17 ANNUAL REPORT**

C.1. Certification Statement

"I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted, is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature of Duly Authorized Representative:



Terence Kyaw
Public Works Director

9/17/18
Date

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Section 1 – Permittee Information

Background Information			
Permittee Name:	City of Redwood City		
Population:	86,685		
NPDES Permit No.:	CAS612008		
Order Number:	R2-2015-0049		
Reporting Time Period (month/year):	July 2017 through June 2018		
Name of the Responsible Authority:	Melissa Stevenson Diaz	Title:	City Manager
Mailing Address:	P.O. Box 391		
City:	Redwood City	Zip Code:	94063
		County:	San Mateo
Telephone Number:	(650) 780-7301	Fax Number:	(650) 780-7445
E-mail Address:	mdiaz@redwoodcity.org		
Name of the Designated Stormwater Management Program Contact (if different from above):	Terence Kyaw	Title:	Acting Public Works Director
Department:	Public Works Services Department		
Mailing Address:	1400 Broadway		
City:	Redwood City	Zip Code:	94063
		County:	San Mateo
Telephone Number:	(650) 780-7466	Fax Number:	(650) 780- 7445
E-mail Address:	tkyaw@redwoodcity.org		

Section 2 - Provision C.2 Reporting Municipal Operations

Program Highlights and Evaluation

Highlight/summarize activities for reporting year:

Summary:
 City staff continues to participate in SMCWPPP’s Municipal Subcommittee. In FY 17/18, Public Works continued integrating the electronic work order management system into Stormwater division daily operations and implementation of the full trash capture device O&M Program. The City continues to operate stormwater pump stations and conduct yearly inspections of the Corp Yard.

Refer to the C.2 Municipal Operations section of the SMCWPPP FY 17-18 Annual Report for a description of activities implemented at the countywide and/or regional level.

C.2.a. ► Street and Road Repair and Maintenance

Place a **Y** in the boxes next to activities where applicable BMPs were implemented. If not applicable, type **NA** in the box and provide an explanation in the comments section below. Place an **N** in the boxes next to activities where applicable BMPs were not implemented for one or more of these activities during the reporting fiscal year, then in the comments section below provide an explanation of when BMPs were not implemented and the corrective actions taken.

Y	Control of debris and waste materials during road and parking lot installation, repaving or repair maintenance activities from polluting stormwater
Y	Control of concrete slurry and wastewater, asphalt, pavement cutting, and other street and road maintenance materials and wastewater from discharging to storm drains from work sites.
Y	Sweeping and/or vacuuming and other dry methods to remove debris, concrete, or sediment residues from work sites upon completion of work.

Comments:

C.2.b. ► Sidewalk/Plaza Maintenance and Pavement Washing

Place a **Y** in the boxes next to activities where applicable BMPs were implemented. If not applicable, type **NA** in the box and provide an explanation in the comments section below. Place an **N** in the boxes next to activities where applicable BMPs were not implemented for one or more of these activities during the reporting fiscal year, then in the comments section below provide an explanation of when BMPs were not implemented and the corrective actions taken.

Y	Control of wash water from pavement washing, mobile cleaning, pressure wash operations at parking lots, garages, trash areas, gas station fueling areas, and sidewalk and plaza cleaning activities from polluting stormwater
Y	Implementation of the BASMAA Mobile Surface Cleaner Program BMPs

Comments:

C.2.c. ► Bridge and Structure Maintenance and Graffiti Removal

Place a **Y** in the boxes next to activities where applicable BMPs were implemented. If not applicable, type **NA** in the box and provide an explanation in the comments section below. Place an **N** in the boxes next to activities where applicable BMPs were not implemented for one or more of these activities during the reporting fiscal year, then in the comments section below provide an explanation of when BMPs were not implemented and the corrective actions taken.

Y	Control of discharges from bridge and structural maintenance activities directly over water or into storm drains
Y	Control of discharges from graffiti removal activities
Y	Proper disposal for wastes generated from bridge and structure maintenance and graffiti removal activities
Y	Implementation of the BASMAA Mobile Surface Cleaner Program BMPs for graffiti removal
Y	Employee training on proper capture and disposal methods for wastes generated from bridge and structural maintenance and graffiti removal activities.
Y	Contract specifications requiring proper capture and disposal methods for wastes generated from bridge and structural maintenance and graffiti removal activities.

Comments:

C.2.e. ► Rural Public Works Construction and Maintenance			
Does your municipality own/maintain rural ¹ roads:		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
If your answer is No then skip to C.2.f.			
Place a Y in the boxes next to activities where applicable BMPs were implemented. If not applicable, type NA in the box and provide an explanation in the comments section below. Place an N in the boxes next to activities where applicable BMPs were not implemented for one or more of these activities during the reporting fiscal year, then in the comments section below provide an explanation of when BMPs were not implemented and the corrective actions taken.			
<input type="checkbox"/>	Control of road-related erosion and sediment transport from road design, construction, maintenance, and repairs in rural areas		
<input type="checkbox"/>	Identification and prioritization of rural road maintenance based on soil erosion potential, slope steepness, and stream habitat resources		
<input type="checkbox"/>	No impact to creek functions including migratory fish passage during construction of roads and culverts		
<input type="checkbox"/>	Inspection of rural roads for structural integrity and prevention of impact on water quality		
<input type="checkbox"/>	Maintenance of rural roads adjacent to streams and riparian habitat to reduce erosion, replace damaging shotgun culverts and excessive erosion		
<input type="checkbox"/>	Re-grading of unpaved rural roads to slope outward where consistent with road engineering safety standards, and installation of water bars as appropriate		
<input type="checkbox"/>	Inclusion of measures to reduce erosion, provide fish passage, and maintain natural stream geomorphology when replacing culverts or design of new culverts or bridge crossings		
Comments including listing increased maintenance in priority areas:			

¹Rural means any watershed or portion thereof that is developed with large lot home-sites, such as one acre or larger, or with primarily agricultural, grazing or open space uses.

C.2.f. ► Corporation Yard BMP Implementation				
Place an X in the boxes below that apply to your corporations yard(s):				
<input type="checkbox"/>	We do not have a corporation yard			
<input type="checkbox"/>	Our corporation yard is a filed NOI facility and regulated by the California State Industrial Stormwater NPDES General Permit			
<input checked="" type="checkbox"/>	We have a Stormwater Pollution Prevention Plan (SWPPP) for the Corporation Yard(s)			
Place an X in the boxes below next to implemented SWPPP BMPs to indicate that these BMPs were implemented in applicable instances. If not applicable, type NA in the box. If one or more of the BMPs were not adequately implemented during the reporting fiscal year then indicate so and explain in the comments section below:				
<input checked="" type="checkbox"/>	Control of pollutant discharges to storm drains such as wash waters from cleaning vehicles and equipment			
<input checked="" type="checkbox"/>	Routine inspection prior to the rainy seasons of corporation yard(s) to ensure non-stormwater discharges have not entered the storm drain system			
<input checked="" type="checkbox"/>	Containment of all vehicle and equipment wash areas through plumbing to sanitary or another collection method			
<input checked="" type="checkbox"/>	Use of dry cleanup methods when cleaning debris and spills from corporation yard(s) or collection of all wash water and disposing of wash water to sanitary or other location where it does not impact surface or groundwater when wet cleanup methods are used			
<input checked="" type="checkbox"/>	Cover and/or berm outdoor storage areas containing waste pollutants			
Comments:				
If you have a corporation yard(s) that is not an NOI facility, complete the following table for inspection results for your corporation yard(s) or attach a summary including the following information:				
Corporation Yard Name	Corp Yard Activities w/ site-specific SWPPP BMPs	Inspection Date ²	Inspection Findings/Results	Date and Description of Follow-up and/or Corrective Actions
Municipal Services Center	General housekeeping, vehicle/equipment washing; vehicle/equipment maintenance & repair, fuel dispensing; outdoor material storage; outdoor waste/recycling storage; municipal vehicle/heavy equipment parking; and employee parking	9/7/2017	No issues found during inspection.	No follow-up action required.

² Minimum inspection frequency is once a year during September.

Section 3 - Provision C.3 Reporting New Development and Redevelopment

C.3.b.iv.(2) ► Regulated Projects Reporting

Fill in attached table C.3.b.iv.(2) or attach your own table including the same information. See attached table.

C.3.e.iv. ► Alternative or In-Lieu Compliance with Provision C.3.c.

Is your agency choosing to require 100% LID treatment onsite for all Regulated Projects and not allow alternative compliance under Provision C.3.e.?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
Comments (optional):				

C.3.e.v ► Special Projects Reporting

1. In FY 2017-18, has your agency received, but not yet granted final discretionary approval of, a development permit application for a project that has been identified as a potential Special Project based on criteria listed in MRP Provision C.3.e.ii.(2) for any of the three categories of Special Projects (Categories A, B or C)?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
2. In FY 2017-18, has your agency granted final discretionary approval to a Special Project? If yes, include the project in both the C.3.b.iv.(2) Table, and the C.3.e.v. Table.	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
If you answered "Yes" to either question, <ol style="list-style-type: none"> 1) Complete Table C.3.e.v. 2) Attach narrative discussion of 100% LID Feasibility or Infeasibility for each project. 				

C.3.h.v.(2) ► Reporting Newly Installed Stormwater Treatment Systems and HM Controls (Optional)

On an annual basis, before the wet season, provide a list of newly installed (installed within the reporting year) stormwater treatment systems and HM controls to the local mosquito and vector control agency and the Water Board. The list shall include the facility locations and a description of the stormwater treatment measures and HM controls installed.

See attached Table **C.3.h.v.(2)** for list of newly installed Stormwater Treatment Systems/HM Controls.

C.3.h.v.(3)(a) –(c) and (f) ► Installed Stormwater Treatment Systems Operation and Maintenance Verification Inspection Program Reporting

Site Inspections Data	Number/Percentage
Total number of Regulated Projects (including offsite projects, and Regional Projects) in your agency's database or tabular format at the end of the previous fiscal year (FY16-17)	67
Total number of Regulated Projects (including offsite projects, and Regional Projects) in your agency's database or tabular format at the end of the reporting period (FY 17-18)	79
Total number of Regulated Projects (including offsite projects, and Regional Projects) for which O&M verification inspections were conducted during the reporting period (FY 17-18)	32
Percentage of the total number of Regulated Projects (including offsite projects, and Regional Projects) inspected during the reporting period (FY 17-18)	48% ³ (32/67)

³ Based on the number of Regulated Projects in the database or tabular format at the end of the previous fiscal year, per MRP Provision C.3.h.ii.(6)(b).

**C.3.h.v.(3)(d)-(e) ► Installed Stormwater Treatment Systems
 Operation and Maintenance Verification Inspection Program
 Reporting**

Provide a discussion of the inspection findings for the year and any common problems encountered with various types of treatment systems and/or HM controls. This discussion should include a general comparison to the inspection findings from the previous year.

Summary:

This reporting year, the inspection program was conducted by staff and was intended to ensure the prior year’s inspections were conducted to keep on the 5-year rotation. Next reporting year, 20% of sites will be inspected. This year the most common issue on large sites was trash and debris in bioswales, as well as un-cleaned or dirty mechanical devices. On two occasions, single family homeowners within regulated subdivisions had made modifications to their treatment devices that caused them to operate improperly. In those cases, homeowners were educated and informed about the need for the devices, and upon correction the inspections passed.

Provide a discussion of the effectiveness of the O&M Program and any proposed changes to improve the O&M Program (e.g., changes in prioritization plan or frequency of O&M inspections, other changes to improve effectiveness program).

Summary:

This year the inspection program was successful. Redwood City revitalized its rotation system 5 years ago for FY 2012-13, and compliance was very high for sites that were inspected again this year. For sites that failed inspection and were “new” to the rotation, they tended to require more education and follow-up than existing sites. The common occurrence between these sites was that the properties had changed hands or been purchased by the first buyer since the systems were installed. Based on this observation, we plan to monitor the “new” installations in next year’s rotation to evaluate their performance compared to existing sites, and determine if any additional education or outreach would be helpful before the site’s first scheduled rotation.

C.3.h.v.(4) ► Enforcement Response Plan

Does your agency have an Enforcement Response Plan for all O&M inspections of stormwater treatment measures?

<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
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If No, explain:

C.3.i. ► Required Site Design Measures for Small Projects and Detached Single Family Home Projects

On an annual basis, discuss the implementation of the requirements of Provision C.3.i, including ordinance revisions, permit conditions, development of standard specifications and/or guidance materials, and staff training.

Summary:

BASMAA prepared standard specifications in four fact sheets regarding the site design measures listed in Provision C.3.i, as a resource for Permittees. We have modified local ordinances/policies/procedures and forms/checklists to require all applicable projects approved after December 1, 2012 to implement at least one of the site design measures listed in Provision C.3.i.

C.3.j.i.(5)(d) ► Green Infrastructure Outreach

On an annual basis, provide a summary of your agency's outreach and education efforts pertaining to Green Infrastructure planning and implementation.

Summary:

The engineering division has been the lead in outreach and education efforts since they are responsible for the review of all C.3 regulated projects during entitlements and construction drawing phases. In addition to the presentations given in the Fiscal year 16-17 Engineering development staff gave another focused presentation to the entire Engineering division to remind them about no missed opportunities and the potential to install Green Infrastructure on February 14, 2018.

The green infrastructure working group (which includes representatives from all City departments) meets and discuss progress on the green infrastructure plan on a quarterly basis or additionally by email to review documents created by the countywide program.

When the Reasonable Assurance Analysis model was completed, the green infrastructure working group worked with the County to develop a large scale regional project that would primarily meet all of the City's obligations for load reductions. A presentation was made to the City Council's Utilities Sub-Committee on May 30, 2018 and the project was fairly well received with direction for staff to pursue development of the project for inclusion in the Green Infrastructure Plan. As the Plan is continued to be developed staff intends to take it back to this sub-committee and additionally to the Complete Streets Advisory Committee, the Parks, Recreation and Community Services Commission and the Planning Commission, prior to Council consideration for approval in June 2019.

Please refer to the SMCWPPP FY 17-18 Annual Report for a summary of outreach efforts implemented at the countywide level.

C.3.j.ii.(2) ► Early Implementation of Green Infrastructure Projects

On an annual basis, submit a list of green infrastructure projects, public and private, that are already planned for implementation during the permit term and infrastructure projects planned for implementation during the permit term that have potential for green infrastructure measures. Include the following information:

- A summary of planning or implementation status for each public and private green infrastructure project that is not also a Regulated Project as defined in Provision C.3.b.ii. (see C.3.j.ii.(2) Table B - Planned Green Infrastructure Projects).
- A summary of how each public infrastructure project with green infrastructure potential will include green infrastructure measures to the maximum extent practicable during the permit term. For any public infrastructure project where implementation of green infrastructure measures is not practicable, submit a brief description of the project and the reasons green infrastructure measures were impracticable to implement (see C.3.j.ii.(2) Table A - Public Projects Reviewed for Green Infrastructure).

Background Information:

Describe how this provision is being implemented by your agency, including the process used by your agency to identify projects with potential for green infrastructure, if applicable.

The City has been able to include green infrastructure elements in several capital improvement projects that would otherwise not have included them. Some of those projects are only small-scale improvements, but larger projects have been able to make use of grant funding for inclusion of green infrastructure elements.

The City has also been requiring several of the major developments to include green infrastructure elements for treatment of right-of-way by requiring it for project approvals. The City is considering making this a policy.

Summary of Planning or Implementation Status of Identified Projects:

See attached Tables C.3.j.ii.(2)-A and C.3.j.ii.(2)-B for the required information.

C.3.j.iii.(2) ► Participate in Processes to Promote Green Infrastructure

On an annual basis, report on the goals and outcomes during the reporting year of work undertaken to participate in processes to promote green infrastructure.

Please refer to the SMCWPPP FY 17-18 Annual Report for a summary of efforts conducted to help regional, State, and federal agencies plan, design and fund incorporation of green infrastructure measures into local infrastructure projects, including transportation projects.

C.3.j.iv.(2) ► Tracking and Reporting Progress

On an annual basis, report progress on development and implementation of methods to track and report implementation of green infrastructure measures and provide reasonable assurance that wasteload allocations for TMDLs are being met.

Please refer to the SMCWPPP FY 17-18 Annual Report for a summary of methods being developed to track and report implementation of green infrastructure measures.

C.3.b.iv.(2) ► Regulated Projects Reporting Table (part 1) – Projects Approved During the Fiscal Year Reporting Period

Project Name Project No.	Project Location ⁴ , Street Address	Name of Developer	Project Phase No. ⁵	Project Type & Description ⁶	Project Watershed ⁷	Total Site Area (Acres)	Total Area of Land Disturbed (Acres)	Total New Impervious Surface Area (ft ²) ⁸	Total Replaced Impervious Surface Area (ft ²) ⁹	Total Pre- Project Impervious Surface Area ¹⁰ (ft ²)	Total Post- Project Impervious Surface Area ¹¹ (ft ²)
Private Projects											
601 El Camino Real CP18-0046	601 El Camino Real, Redwood City, CA	KB Home South Bay	N/A	A Condominium project with 33 Residential Units	Redwood Creek	1.09	1.09	0	43,917	46,657	43,917
1548 Maple Street	1548 Maple Street, Redwood City, CA	Strada Investment Group	N/A	A Condominium project with 131 Residential Units	Redwood Creek	7.88	7.88	0	218,561	273,267	218,561
Kaiser Medical Office Building 2 CP18-0118	905 Maple Street, Redwood City, CA	Kaiser Foundation Hospitals	N/A	A 4-story Medical Office Building over 3 levels of underground parking	Redwood Creek	2.5	2.5	0	83,670	89,718	83,670
851 Main CP18-0169	851 Main Street, Redwood City, CA	Acclaim Companies	N/A	A 4-story commercial office building over 2 levels of underground parking	Redwood Creek	0.64	0.64	1,102	26,975	26,975	28,077
515 Cleveland	515 Cleveland Street, Redwood City, CA	California Communities	N/A	A Condominium project with 17 Residential Units	Redwood Creek	0.73	0.73	2,499	18,829	18,829	21,328

⁴Include cross streets

⁵If a project is being constructed in phases, indicate the phase number and use a separate row entry for each phase. If not, enter "NA".

⁶Project Type is the type of development (i.e., new and/or redevelopment). Example descriptions of development are: 5-story office building, residential with 160 single-family homes with five 4-story buildings to contain 200 condominiums, 100 unit 2-story shopping mall, mixed use retail and residential development (apartments), industrial warehouse.

⁷State the watershed(s) in which the Regulated Project is located. Downstream watershed(s) may be included, but this is optional.

⁸All impervious surfaces added to any area of the site that was previously existing pervious surface.

⁹All impervious surfaces added to any area of the site that was previously existing impervious surface.

¹⁰For redevelopment projects, state the pre-project impervious surface area.

¹¹For redevelopment projects, state the post-project impervious surface area.

C.3.b.iv.(2) ► Regulated Projects Reporting Table (part 1) – Projects Approved During the Fiscal Year Reporting Period

Project Name Project No.	Project Location ⁴ , Street Address	Name of Developer	Project Phase No. ⁵	Project Type & Description ⁶	Project Watershed ⁷	Total Site Area (Acres)	Total Area of Land Disturbed (Acres)	Total New Impervious Surface Area (ft ²) ⁸	Total Replaced Impervious Surface Area (ft ²) ⁹	Total Pre- Project Impervious Surface Area ¹⁰ (ft ²)	Total Post- Project Impervious Surface Area ¹¹ (ft ²)
707 Bradford	707 Bradford Street, Redwood City, CA	MidPen Housing	N/A	A Mixed Use project with 117 Residential Units and Day Care	Redwood Creek	1.27	.94	32,245	4,675	26,930	36,930
353 Main	353 Main Street, Redwood City, CA	ROEM Corporation	N/A	An Apartment project with 125 Residential Units	Redwood Creek	1.62	1.82	3,700	57,500	57,500	61,200
10 Twin Dolphin	10 Twin Dolphin Drive, Redwood City, CA	Oracle	N/A	Parking Lot Rehabilitation, new pedestrian pathways	Redwood Creek	15	0.76	19,650	13,500	469,000	488,650
1100, 1600, 1900 Seaport Blvd	1100, 1600, 1900 Seaport Blvd, Redwood City, CA	Google, Inc.	N/A	Concrete patios and pathways connecting multiple buildings within the campus	Redwood Creek	1.45	1.45	30,661	13,193	13,193	43,854
1690 Broadway	1690 Broadway, Redwood City, CA	RWC Hospitality, LP	N/A	A four story hotel with 90 rooms	Redwood Creek	0.46	0.46	0	22,000	22,000	22,000
Public Projects											
Magical Bridge Playground	Red Morton Park, Redwood City, CA	City of Redwood City	N/A	A fully accessible playground located within a public park	Redwood Creek	2.97	1.99	38,535	36,000	36,000	74,535
Comments:											

**C.3.b.iv.(2) ► Regulated Projects Reporting Table (part 2) –
 Projects Approved During the Fiscal Year Reporting Period
 (private projects)**

Project Name Project No.	Application Deemed Complete Date ¹²	Application Final Approval Date ¹³	Source Control Measures ¹⁴	Site Design Measures ¹⁵	Treatment Systems Approved ¹⁶	Type of Operation & Maintenance Responsibility Mechanism ¹⁷	Hydraulic Sizing Criteria ¹⁸	Alternative Compliance Measures ^{19/20}	Alternative Certification ²¹	HM Controls ^{22/23}
Private Projects										
601 El Camino Real CP18-0046	10/17/2017	10/17/2017	Label storm drain inlets, plumb floor drains to sewer, appropriate plant selection, design for discharge of fire sprinkler test water to landscape	Direct runoff (sidewalk, walkways) to vegetated areas.	Bioretention areas meeting biotreatment requirements of C.3.c; Media filter meeting treatment requirement of C.3.d	Stormwater Treatment Measures Maintenance Agreement, requires the owner to perform routine maintenance	4% method and Combination flow and volume, criteria 3, flow-based for media filter	None	No, project reviewed in-house	N/A, this project is not subject to HM controls because it is part of the exempt area
1548 Maple Street	5/7/2018	5/7/2018	Label storm drain inlets, plumb floor drains to sewer, appropriate plant selection, design for discharge of fire sprinkler test water to landscape	Direct runoff (roof, sidewalk, walkways, driveways and uncovered parking) to vegetated areas, limit disturbance of natural water bodies and drainage systems,	Bioretention areas meeting biotreatment requirements of C.3.c	Stormwater Treatment Measures Maintenance Agreement, requires the owner to perform routine maintenance	4% method	None	No, project reviewed in-house	N/A, this project is not subject to HM controls because it is part of the exempt area

¹²For private projects, state project application deemed complete date. If the project did not go through discretionary review, report the building permit issuance date.

¹³For private projects, state project application final discretionary approval date. If the project did not go through discretionary review, report the building permit issuance date.

¹⁴List source control measures approved for the project. Examples include: properly designed trash storage areas; storm drain stenciling or signage; efficient landscape irrigation systems; etc.

¹⁵List site design measures approved for the project. Examples include: minimize impervious surfaces; conserve natural areas, including existing trees or other vegetation, and soils; construct sidewalks, walkways, and/or patios with permeable surfaces, etc.

¹⁶List all approved stormwater treatment system(s) to be installed onsite or at a joint stormwater treatment facility (e.g., flow through planter, bioretention facility, infiltration basin, etc.).

¹⁷List the legal mechanism(s) (e.g., O&M agreement with private landowner; O&M agreement with homeowners' association; O&M by public entity, etc...) that have been or will be used to assign responsibility for the maintenance of the post-construction stormwater treatment systems.

¹⁸See Provision C.3.d.i. "Numeric Sizing Criteria for Stormwater Treatment Systems" for list of hydraulic sizing design criteria. Enter the corresponding provision number of the appropriate criterion (i.e., 1.a., 1.b., 2.a., 2.b., 2.c., or 3).

¹⁹For Alternative Compliance at an offsite location in accordance with Provision C.3.e.i.(1), on a separate page, give a discussion of the alternative compliance site including the information specified in Provision C.3.b.v.(1)(m)(i) for the offsite project.

²⁰For Alternative Compliance by paying in-lieu fees in accordance with Provision C.3.e.i.(2), on a separate page, provide the information specified in Provision C.3.b.v.(1)(m)(ii) for the Regional Project.

²¹Note whether a third party was used to certify the project design complies with Provision C.3.d.

²²If HM control is not required, state why not.

²³If HM control is required, state control method used (e.g., method to design and size device(s) or method(s) used to meet the HM Standard, and description of device(s) or method(s) used, such as detention basin(s), bioretention unit(s), regional detention basin, or in-stream control).

**C.3.b.iv.(2) ► Regulated Projects Reporting Table (part 2) –
 Projects Approved During the Fiscal Year Reporting Period
 (private projects)**

Project Name Project No.	Application Deemed Complete Date ¹²	Application Final Approval Date ¹³	Source Control Measures ¹⁴	Site Design Measures ¹⁵	Treatment Systems Approved ¹⁶	Type of Operation & Maintenance Responsibility Mechanism ¹⁷	Hydraulic Sizing Criteria ¹⁸	Alternative Compliance Measures ^{19/20}	Alternative Certification ²¹	HM Controls ^{22/23}
				conserve natural areas, minimize impervious surfaces						
Kaiser Medical Office Building 2 CP18-0118	2/6/2018	2/6/2018	Label storm drain inlets, plumb parking garage drainage to sewer, appropriate plant selection	Direct runoff (sidewalk, walkways) to vegetated areas.	Bioretention areas meeting biotreatment requirements of C.3.c	Stormwater Treatment Measures Maintenance Agreement, requires the owner to perform routine maintenance	4% method and Combinatio n flow and volume, criteria 3	None	No, project reviewed in- house	N/A, this project is not subject to HM controls because it is part of the exempt area
851 Main CP18-0169	6/11/2018	6/11/2018	Label storm drain inlets, plumb floor drains to sewer, appropriate plant selection, design for discharge of fire sprinkler test water to landscape	Direct runoff (roof) to vegetated areas.	Bioretention areas meeting biotreatment requirements of C.3.c; Media filter meeting treatment requirement of C.3.d	Stormwater Treatment Measures Maintenance Agreement, requires the owner to perform routine maintenance	4% method for bioretention area, flow-based for media filter	None	No, project reviewed in- house	N/A, this project does not have over 1 acre of impervious surfaces
515 Cleveland	6/19/2018	6/19/2018	Label storm drain inlets, plumb floor drains to sewer, appropriate plant selection, design for discharge of fire sprinkler test water to landscape	Direct runoff (roof, sidewalk, walkways, driveways and uncovered parking) to vegetated areas	Bioretention areas meeting biotreatment requirements of C.3.c	Stormwater Treatment Measures Maintenance Agreement, requires the owner to perform routine maintenance	4% method	None	No, project reviewed in- house	N/A, this project does not have over 1 acre of impervious surfaces

**C.3.b.iv.(2) ► Regulated Projects Reporting Table (part 2) –
 Projects Approved During the Fiscal Year Reporting Period
 (private projects)**

Project Name Project No.	Application Deemed Complete Date ¹²	Application Final Approval Date ¹³	Source Control Measures ¹⁴	Site Design Measures ¹⁵	Treatment Systems Approved ¹⁶	Type of Operation & Maintenance Responsibility Mechanism ¹⁷	Hydraulic Sizing Criteria ¹⁸	Alternative Compliance Measures ^{19/20}	Alternative Certification ²¹	HM Controls ^{22/23}
707 Bradford	12/05/17	12/05/17	Label storm drain inlets, appropriate plant selection	Direct runoff (concrete pathways, patios) to bioretention planters	Bioretention areas meeting biotreatment requirements of C.3.c; Media filter meeting treatment requirement of C.3.d	Stormwater Treatment Measures Maintenance Agreement, requires the owner to perform routine maintenance	4% method for bioretention area with tree credit, flow-based for media filter	None	No, project reviewed in-house	N/A, this project does not have over 1 acre of impervious surfaces
353 Main	03/21/18	03/21/18	Label storm drain inlets, appropriate plant selection	Direct runoff (concrete pathways, patios) to bioretention planters	Bioretention areas meeting biotreatment requirements of C.3.c; Media filter meeting treatment requirement of C.3.d	Stormwater Treatment Measures Maintenance Agreement, requires the owner to perform routine maintenance	4% method for bioretention area, flow-based for media filter	None	No, project reviewed in-house	N/A, this project does not have over 1 acre of impervious surfaces
10 Twin Dolphin	03/02/18	03/02/18	Label storm drain inlets, appropriate plant selection	Direct runoff (concrete pathways, patios) to bioretention planters	Bioretention areas meeting biotreatment requirements of C.3.c	Stormwater Treatment Measures Maintenance Agreement, requires the owner to perform routine maintenance	4% method for bioretention area	None	No, project reviewed in-house	N/A, this project does not have over 1 acre of impervious surfaces
1100, 1600, 1900 Seaport Blvd	03/02/18	03/02/18	Label storm drain inlets, appropriate plant selection	Direct runoff (concrete pathways, patios) to bioretention planters	Bioretention areas meeting biotreatment	Stormwater Treatment Measures Maintenance Agreement, requires the owner	4% method for bioretention area	None	No, project reviewed in-house	N/A, this project is not subject to HM controls because it is

**C.3.b.iv.(2) ► Regulated Projects Reporting Table (part 2) –
 Projects Approved During the Fiscal Year Reporting Period
 (private projects)**

Project Name Project No.	Application Deemed Complete Date ¹²	Application Final Approval Date ¹³	Source Control Measures ¹⁴	Site Design Measures ¹⁵	Treatment Systems Approved ¹⁶	Type of Operation & Maintenance Responsibility Mechanism ¹⁷	Hydraulic Sizing Criteria ¹⁸	Alternative Compliance Measures ^{19/20}	Alternative Certification ²¹	HM Controls ^{22/23}
					requirements of C.3.c	to perform routine maintenance				part of the exempt area
1690 Broadway	10/24/17	10/24/17	Label storm drain inlets, appropriate plant selection	Direct runoff (roof) to vegetated areas.	Bioretention areas meeting biotreatment requirements of C.3.c; Media filter meeting treatment requirement of C.3.d	Stormwater Treatment Measures Maintenance Agreement, requires the owner to perform routine maintenance	4% method for bioretention area, flow-based for media filter	None	No, project reviewed in- house	N/A, this project does not have over 1 acre of impervious surfaces

**C.3.b.iv.(2) ► Regulated Projects Reporting Table (part 2) –
 Projects Approved During the Fiscal Year Reporting Period
 (public projects)**

Project Name Project No.	Approval Date ²⁴	Date Construction Scheduled to Begin	Source Control Measures ²⁵	Site Design Measures ²⁶	Treatment Systems Approved ²⁷	Operation & Maintenance Responsibility Mechanism ²⁸	Hydraulic Sizing Criteria ²⁹	Alternative Compliance Measures ^{30/31}	Alternative Certification ³²	HM Controls ^{33/34}
Public Projects										
Magical Bridge Playground	May 20, 2018	October, 2018	Label storm drain inlets, retain existing vegetation, appropriate plant selection, use efficient irrigation system	Direct runoff (sidewalks, walkways, and uncovered parking) onto vegetated areas, conserve natural areas, including existing trees, other vegetation and soils	Bioretention areas meeting biotreatment requirements of C.3.c; self-retaining areas	City-owned property. Treatment systems will be maintained by the City.	4% method for bioretention areas, 2:1 max for self-retaining areas	None	No, project reviewed in-house	N/A, this project is not subject to HM controls because it is part of the exempt area
Comments:										

²⁴For public projects, enter the plans and specifications approval date.

²⁵List source control measures approved for the project. Examples include: properly designed trash storage areas; storm drain stenciling or signage; efficient landscape irrigation systems; etc.

²⁶List site design measures approved for the project. Examples include: minimize impervious surfaces; conserve natural areas, including existing trees or other vegetation, and soils; construct sidewalks, walkways, and/or patios with permeable surfaces, etc.

²⁷List all approved stormwater treatment system(s) to be installed onsite or at a joint stormwater treatment facility (e.g., flow through planter, bioretention facility, infiltration basin, etc.).

²⁸List the legal mechanism(s) (e.g., maintenance plan for O&M by public entity, etc.) that have been or will be used to assign responsibility for the maintenance of the post-construction stormwater treatment systems.

²⁹See Provision C.3.d.i. "Numeric Sizing Criteria for Stormwater Treatment Systems" for list of hydraulic sizing design criteria. Enter the corresponding provision number of the appropriate criterion (i.e., 1.a., 1.b., 2.a., 2.b., 2.c., or 3).

³⁰For Alternative Compliance at an offsite location in accordance with Provision C.3.e.i.(1), on a separate page, give a discussion of the alternative compliance site including the information specified in Provision C.3.b.v.(1)(m)(i) for the offsite project.

³¹For Alternative Compliance by paying in-lieu fees in accordance with Provision C.3.e.i.(2), on a separate page, provide the information specified in Provision C.3.b.v.(1)(m)(ii) for the Regional Project.

³²Note whether a third party was used to certify the project design complies with Provision C.3.d.

³³If HM control is not required, state why not.

³⁴If HM control is required, state control method used (e.g., method to design and size device(s) or method(s) used to meet the HM Standard, and description of device(s) or method(s) used, such as detention basin(s), bioretention unit(s), regional detention basin, or in-stream control).

C.3.h.v.(2). ► Table of Newly Installed³⁵ Stormwater Treatment Systems and Hydromodification Management (HM) Controls (Optional)

Fill in table below or attach your own table including the same information.

Name of Facility	Address of Facility	Party Responsible ³⁶ For Maintenance	Type of Treatment/HM Control(s)
The Grove, Lot 1	76 Liberty Hall Lane	Homeowner	Bioretention areas, Permeable Pavers
The Grove, Lot 2	52 Liberty Hall Lane	Homeowner	Bioretention areas, Permeable Pavers
The Grove, Lot 3	38 Liberty Hall Lane	Homeowner	Bioretention areas, Permeable Pavers
The Grove, Lot 4	26 Liberty Hall Lane	Homeowner	Bioretention areas, Permeable Pavers
The Grove, Lot 5	12 Liberty Hall Lane	Homeowner	Bioretention areas, Permeable Pavers
The Grove, Lot 6	63 Liberty Hall Lane	Homeowner	Bioretention areas, Permeable Pavers
The Grove, Lot 7	82 Finger Avenue	Homeowner	Bioretention areas, Permeable Pavers
The Grove, Lot 8	88 Finger Avenue	Homeowner	Bioretention areas, Permeable Pavers
The Grove, Parcel A	(None assigned)	Homeowners Association	Permeable Pavers
Oracle D-Tech	275 Oracle Parkway	Property Owner	Bioretention areas, Permeable Pavers
601 Marshall	601 Marshall	Property Owner	Bioretention areas
550 Allerton	550 Allerton	Property Owner	Media Filter
Blu Harbor	1 Uccelli Blvd	Homeowners Association	Bioretention areas, Permeable Pavers
815 Hamilton	899 Winslow	Property Owner	Flow Through Planter, Media Filter
718 Canyon	718 Canyon Road	Homeowners	Vegetated swales

³⁵ "Newly Installed" includes those facilities for which the final installation inspection was performed during this reporting year.

³⁶ State the responsible operator for installed stormwater treatment systems and HM controls.

C.3.e.v.Special Projects Reporting Table												
Reporting Period – July 1 2017 - June 30, 2018												
Project Name & No.	Permittee	Address	Application Submittal Date ³⁷	Status ³⁸	Description ³⁹	Site Total Acreage	Gross Density DU/Acre	Density FAR	Special Project Category ⁴⁰	LID Treatment Reduction Credit Available ⁴¹	List of LID Stormwater Treatment Systems ⁴²	List of Non-LID Stormwater Treatment Systems
851 Main Street	Redwood City	851 Main St; Main & Walnut; Redwood City, 94063	12/4/2014	Approved; Final discretionary approval issued 6/11/2018; Reporting based on plans dated 8/7/2017	4-story office building containing 87,380 sf of office space over 2 levels of underground parking. (4 stories total)	0.64 Acres	N/A – Project is 100% office	3.1 :1	Category B: 100% Site Coverage; Creates and/or replaces between 0.5 and 2.0 acres of impervious surface; Includes no surface parking; Density of > 3:1 FAR; Located in the Downtown Precise Plan area;	Category B: 75% 75% Allowable Credit	25% comprised of 100% Flow-Through Planter	75% comprised of 100% media filter by Kristar; meets specifications of the Western Washington Technical Assessment Protocol – Ecology (TAPE) program

³⁷Date that a planning application for the Special Project was submitted.

³⁸ Indicate whether final discretionary approval is still pending or has been granted, and provide the date or version of the project plans upon which reporting is based.

³⁹Type of project (commercial, mixed-use, residential), number of floors, number of units, type of parking, and other relevant information.

⁴⁰ For each applicable Special Project Category, list the specific criteria applied to determine applicability. For each non-applicable Special Project Category, indicate n/a.

⁴¹For each applicable Special Project Category, state the maximum total LID Treatment Reduction Credit available. For Category C Special Projects also list the individual Location, Density, and Minimized Surface Parking Credits available.

⁴²: List all LID stormwater treatment systems proposed. For each type, indicate the percentage of the total amount of runoff identified in Provision C.3.d. for the Special Project's drainage area.

601 El Camino	Redwood City	601 El Camino Real; El Camino & Hopkins; Redwood City, 94063	9/29/2016	Approved; Final discretionary approval issued 10/17/2017; Reporting based on plans dated 6/30/2017	Four 3-story townhome-style residential condominium buildings containing 33 units. Units include 2 parking spaces each, within the attached garage.	1.09 Acres	30 du/ac	N/A	Category C: Located within ½ mile of a transit hub; Residential Density of 30 DU/ac or higher; Less than 10% at-grade surface parking;	Category C: 45% 45% Allowable Credit	65% comprised of 100% Bioretention Area	35% comprised of 100% media filter by Kristar; meets specifications of the Western Washington Technical Assessment Protocol – Ecology (TAPE) program
353 Main	Redwood City	353 Main Street; Redwood City, 94063	10/21/2016	Approved; Final discretionary approval issued 12/05/2017; Reporting based on plans dated 10/4/2017	7-story building containing 125 residential apartments within 5 stories, over 2 stories of parking (7 stories total)	1.82 Acres	74 DU/ac	N/A	Category C: Located within ½ mile of a transit hub; Residential Density of 60 DU/ac or higher; No surface parking;	Category C: 65% 65% Allowable Credit	65% comprised of 100% Bioretention Area	35% comprised of 100% media filter by Kristar; meets specifications of the Western Washington Technical Assessment Protocol – Ecology (TAPE) program
707 Bradford	Redwood City	707 Bradford Street; Redwood City, 94063	7/16/2016	Approved; Final discretionary approval issued 3/21/2018; Reporting based on plans dated 3/31/2017	7-story building containing 117 residential units and 3,760 square feet of day care facility, over 2 stories of parking (7 stories total)	1.27 Acres	86 DU/ac	N/A	Category C: Located within ½ mile of a transit hub; Residential Density of 60 DU/ac or higher;	Category C: 65% 65% Allowable Credit	65% comprised of Flow Through Planters, Dry Well, Interceptor Tree Credits	35% comprised of 100% media filter by Kristar; meets specifications of the Western Washington Technical Assessment

									No surface parking;			Protocol – Ecology (TAPE) program
610 Walnut	Redwood City	610 Walnut Street; Redwood City 94063	3/12/2018	Under Review; Final discretionary approval not issued yet; Reporting based on plans dated 3/8/2018	6-story building containing 63,835 SF of commercial office, 4 stories over 3 stories of parking, 1 of which is subterranean parking	0.42 acres	N/A	2.4:1	Category A: Located in the Downtown Core Area: 100% Site Coverage: Creates and/or replaces 0.5 acres or less of impervious surface; Includes no surface parking;	Category A: 100% 100% Allowable Credit	None	100% media filter by Kristar; meets specifications of the Western Washington Technical Assessment Protocol – Ecology (TAPE) program

Special Projects Narrative

See attached narratives.

C.3.j.ii.(2) ► Table A - Public Projects Reviewed for Green Infrastructure				
Project Name and Location⁴³	Project Description	Status⁴⁴	GI Included?⁴⁵	Description of GI Measures Considered and/or Proposed or Why GI is Impracticable to Implement⁴⁶
Roselli Garden - Downtown Library Park – 1668 Middlefield Road	The project proposes to renovate the existing park or swap location with the adjacent parking lot that serves the library and downtown.	On Hold for completion of Downtown Park Feasibility Plan expected to be completed Fall 2018	TBD	Bioretention cells and self-retaining areas will be considered for new and replaced impervious surfaces.
Garrett Park Rehabilitation – 3654 Glenwood Ave	This neighborhood park is scheduled for a playground renovation.	Preparing RFP of consulting services Fall 2019	TBD	Bioretention cells and self-retaining areas will be considered for new and replaced impervious surfaces.
Veterans Memorial Senior Center - YMCA Project – 1400 Roosevelt Ave	The VMSC-YMCA is a joint development project for an intergenerational recreational center in Red Morton Park. The project includes hiring a Master Architect, extensive community outreach, and developing both an MOU for future land use and an operational agreement.	Starting CEQA documentation and 35% design	TBD	It is expected that this will be a C.3 regulated project for all site improvements. The City is evaluating Bioretention cells and self-retaining areas for treatment of the public rights-of-way tributary to the project frontage.
Community Garden – Maple & Lathrop	This project proposes to build raised beds and a fruit alley to form a community garden on a vacant city-owned parcel.	On hold due to Land Title issues	TBD	Bioretention cells and self-retaining areas will be considered for new and replaced impervious surfaces.
Redwood Shores Library Art Play Structure and Playground– 399 Marine Pkwy	This project will install a public art piece with a public accessible playground.	Preparing RFP of consulting services Fall 2017	TBD	Bioretention cells and self-retaining areas will be considered for new and replaced impervious surfaces.
Hopkins Traffic Calming Project	This project will install traffic calming measures based on Public outreach in the neighborhood surrounding the project area	Conceptual Design	TBD	Bioretention cells areas will be considered for use in bulb-outs to treat street runoff.

⁴³ List each public project that is going through your agency’s process for identifying projects with green infrastructure potential.

⁴⁴ Indicate status of project, such as: beginning design, under design (or X% design), projected completion date, completed final design date, etc.

⁴⁵ Enter “Yes” if project will include GI measures, “No” if GI measures are impracticable to implement, or “TBD” if this has not yet been determined.

⁴⁶ Provide a summary of how each public infrastructure project with green infrastructure potential will include green infrastructure measures to the maximum extent practicable during the permit term. If review of the project indicates that implementation of green infrastructure measures is not practicable, provide the reasons why green infrastructure measures are impracticable to implement.

C.3.j.ii.(2) ► Table B - Planned and/or Completed Green Infrastructure Projects

Project Name and Location ⁴⁷	Project Description	Planning or Implementation Status	Green Infrastructure Measures Included
Middlefield Road Utility Underground Project – Middlefield Road between Woodside Road and Main Street	The Middlefield Road project includes construction of a joint utility trench (JUT) to accommodate new and relocated underground electrical and telecommunication lines, as well as streetscape improvements between Main Street and Woodside Road.	Advertising for Bids	Bio-retention areas to treat street runoff
Kennedy Safe Routes to School Project	The Kennedy Safe Routes to School (SRTS) project will construct high-priority, recommended improvements from a walking and bicycling audit	Advertising for Bids	Bio-retention areas to treat street runoff
Measure A 101/Woodside Interchange Project	101/Woodside Interchange project will be a reconstruction of the existing US 101/Woodside Road Interchange to ease congestion, increase safety, and improve access for pedestrians and cyclists	65% Design	Bio-retention areas to treat street runoff
Stanford Neighborhood Street Enhancement Project	Stanford Neighborhood Street Enhancement Project will construct safe routes to school pedestrian improvements and other	Preparing RFP of consulting services Fall 2018	Bio-retention areas to treat street runoff

⁴⁷ List each planned (and expected to be funded) public and private green infrastructure project that is not also a Regulated Project as defined in Provision C.3.b.ii. Note that funding for green infrastructure components may be anticipated but is not guaranteed to be available or sufficient.

	high-priority, recommended improvements from Public outreach in the neighborhood surrounding the Stanford development project		
Whipple Avenue and Iris Street Enhanced Crossing Project	The Whipple Ave and Iris Street Enhanced Crossing Project will install pedestrian improvements for enhanced pedestrian safety at a midblock crossing	Advertising for Bids	Bio-retention areas to treat street runoff
601 El Camino Real	A private development required to treat the public right-of-way in Hopkins Ave between El Camino Real and the train tracks	Design Review	Bio-retention areas to treat street runoff
815 Hamilton	A private development that directed runoff from an adjoining property to the public right-of-way in Hamilton Street	Under Construction	Bio-retention area to treat runoff from an adjoining property
Stanford Phase 1	A private development that is treating runoff from the right-of-way in Bay Road at between El Camino Real and the train tracks	Under Construction	Bio-retention area to treat street runoff
515 Cleveland St	A private development required to treat the public right-of-way tributary to the property frontage on Cleveland St and Harrison Ave	Design Review	Bio-retention area to treat street runoff

Section 4 – Provision C.4 Industrial and Commercial Site Controls

Program Highlights and Evaluation

Highlight/summarize activities for reporting year:

Summary:

The County of San Mateo Health System (County Environmental Health, or CEH) notified Cities in an April 3, 2017 letter of its intent to terminate stormwater inspection agreements with the 17 Cities on December 31, 2017 due to staffing and cost concerns. As of January 1, 2018, the City is responsible for conducting all stormwater business facility inspections. To reflect the City’s current stormwater inspection program, we have updated the Business Inspection Plan (BIP), Enforcement Response Plan (ERP), facilities list, and inspection frequencies and priorities. City staff received training on the updated BIP and ERP in September 2017 and began performing all business inspections in January 2018.

In FY 17-18, City staff continued participation in SMCWPPP’s CII Subcommittee.

C.4.b.iii ► Potential Facilities List (i.e., List of All Facilities Requiring Stormwater Inspections)

List below or attach your list of industrial and commercial facilities in your Inspection Plan to inspect that could reasonably be considered to cause or contribute to pollution of stormwater runoff.

See attached list.

C.4.d.iii.(2)(a) & (c) ► Facility Inspections

Fill out the following table or attach a summary of the following information. Indicate your reporting methodology below.

<input checked="" type="checkbox"/>	Permittee reports multiple discrete potential and actual discharges as one enforcement action.
<input type="checkbox"/>	Permittee reports the total number of discrete potential and actual discharges on each site.

	Number
Total number of inspections conducted (C.4.d.iii.(2)(a))	264
Violations, enforcement actions, or discrete number of potential and actual discharges resolved within 10 working days or otherwise deemed resolved in a longer but still timely manner (C.4.d.iii.(2)(c))	55

Comments:

Compliance was not verified by County within the 10-day timeframe for the one enforcement action not resolved within 10 days. Upon re-inspection, issue was resolved.

C.4.d.iii.(2)(b) ► Frequency and Type of Enforcement Conducted

Fill out the following table or attach a summary of the following information.

	Enforcement Action (as listed in ERP) ⁴⁸	Number of Enforcement Actions Taken
Level 1	Verbal Warning/Warning Notice	55
Level 2	Notice of Violation	1
Level 3	Administrative Order/Notice to Comply	0
Level 4	Administrative Penalty/Legal Action	0
Total		56

C.4.d.iii.(2)(d) ► Frequency of Potential and Actual Non-stormwater Discharges by Business Category

Fill out the following table or attach a summary of the following information.

Business Category ⁴⁹	Number of Actual Discharges	Number of Potential Discharges
Food	0	33
Hazmat	1	22

C.4.d.iii.(2)(e) ► Non-Filers

List below or attach a list of the facilities required to have coverage under the Industrial General Permit but have not filed for coverage:

There were no industries identified as non-filers during scheduled inspections this fiscal year.

⁴⁸Agencies to list specific enforcement actions as defined in their ERPs.

⁴⁹List your Program's standard business categories.

C.4.e.iii ► Staff Training Summary						
Training Name	Training Dates	Topics Covered	No. of Industrial/ Commercial Site Inspectors in Attendance	Percent of Industrial/ Commercial Site Inspectors in Attendance	No. of IDDE Inspectors in Attendance	Percent of IDDE Inspectors in Attendance
MRP BIP/ERP Trainings	7/21/17-7/31/17	Inspector trainings on updated BIP and ERP	4	80.0%	15	100.0%
Industrial/ Commercial Stormwater Inspector Training Workshop	2/28/2018	Facility Stormwater Inspection Basics, Case Study: Shared Trash Enclosure, Case Study: Auto Repair Shop, Case Study: Large Retail Facility, Case Study: C.4 Inspection, C.5 Inspection or Mobile Business?	5	100.0%	5	33.3%
Comments:						

Section 5 – Provision C.5 Illicit Discharge Detection and Elimination

Program Highlights and Evaluation
 Highlight/summarize activities for reporting year:

Provide background information, highlights, trends, etc.

Summary:
 Redwood City staff responds to any reported illicit discharges by first investigating the reported scene. Investigation can occur either by Public Works or Code enforcement staff. Reports of discharges can occur either through telephone or Redwood City’s public engagement tool, “myRWC” by PublicStuff. myRWC is a free smartphone application (also available via web browser) whereby the public can report issues through their phone. This medium allows pictures with GPS to be attached and the submission by the resident is routed to the appropriate staff member based upon complaint or issue. Follow-up, including messages and contact information, can also be input through this system. In addition, any issues reported directly to Public Works staff are entered into the myRWC database to help track and respond to complaints.

City staff participates in the SMCWPPP Commercial, Industrial, and Illicit Discharge (CII) Subcommittee.

The City updated the Enforcement Response Plan and trained staff on the updated documents and guidance for taking consistent actions to achieve compliance.

Please refer to the C.5 Illicit Discharge Detection and Elimination section of the SMCWPPP FY 17-18 Annual Report for description of activities at the countywide or regional level.

C.5.c.iii ► Complaint and Spill Response Phone Number

Summary of any changes made during FY 17-18:
 The new contact information for the Complaint and Spill Response Phone Number is Michael Patolo at 650-780-7476 and Robin Kim at 650-780-7477. There were no other changes to the website address or how the information is publicized and maintained.

C.5.d.iii.(1), (2), (3) ► Spill and Discharge Complaint Tracking

Spill and Discharge Complaint Tracking (fill out the following table or include an attachment of the following information)

	Number
Discharges reported (C.5.d.iii.(1))	6
Discharges reaching storm drains and/or receiving waters (C.5.d.iii.(2))	2
Discharges resolved in a timely manner (C.5.d.iii.(3))	6
Comments:	

One report from the County involved trash on sidewalks where no discharge was found. This was referred to Code Enforcement and cleaned up. A second report from the County involved less than a quart of paint that made it into the storm drain basin, but was recaptured completely. Three discharges are reports from the public about illicit discharges to the street. Staff followed up with the resident / contractor at the reported address and provided education about discharges to the storm drain system. In two instances, no storm drains are present on the street so no discharge reached the storm drain system and receiving waters. In the third instance, no illicit discharge was found upon inspection. One sanitary sewer overflow reached a storm drain system; staff responded to the event and recaptured as much as possible from the incident.

Section 6 – Provision C.6 Construction Site Controls

C.6.e.iii.(3)(a), (b), (c), (d) ▶ Site/Inspection Totals			
Number of active Hillside Sites (sites disturbing < 1 acre of soil requiring storm water runoff quality inspection) (C.6.e.iii.3.a)	Number of High Priority Sites (sites disturbing < 1 acre of soil requiring storm water runoff quality inspection) (C.6.e.iii. 3.c)	Number of sites disturbing ≥ 1 acre of soil (C.6.e.iii.3.b)	Total number of storm water runoff quality inspections conducted (include only Hillside Sites, High Priority Sites and sites disturbing 1 acre or more) (C.6.e.iii. 3.d)
0	9	7	104
Comments: Of the 16 sites, 12 lasted through the entire wet season and many re-inspections occurred after enhanced enforcement to start the wet season in October. The 9 high priority sites were generally in the downtown area.			

C.6.e.iii.(3)(e) ▶ Construction Related Storm Water Enforcement Actions		
	Enforcement Action (as listed in ERP) ⁵⁰	Number Enforcement Actions Issued
Level 1 ⁵¹	Verbal Warning/Warning Notice	24
Level 2	Notice of Violation	3
Level 3	Administrative Order/Notice to Comply	1
Level 4	Administrative Penalty/Legal Action	0
Total		28

⁵⁰Agencies should list the specific enforcement actions as defined in their ERPs.

⁵¹For example, Enforcement Level 1 may be Verbal Warning.

C.6.e.iii.(3)(f), ► Illicit Discharges

	Number
Number of illicit discharges, actual and those inferred through evidence at hillside sites, high priority sites and sites that disturb 1 acre or more of land (C.6.e.iii. 3.f)	0

C.6.e.iii.(3)(g) ► Corrective Actions

Indicate your reporting methodology below.	
<input type="checkbox"/>	Permittee reports multiple discrete potential and actual discharges as one enforcement action.
<input checked="" type="checkbox"/>	Permittee reports the total number of discrete potential and actual discharges on each site.
	Number
Enforcement actions or discrete potential and actual discharges fully corrected within 10 business days after violations are discovered or otherwise considered corrected in a timely period (C.6.e.iii. .3.g)	14
Comments: After strong enforcement in October, full corrective actions took longer than 10 business days to gain full compliance, which is the driving factor behind there being less than 28 enforcement actions coming into compliance within 10 business days. Four of those in particular were a concern with good housekeeping on one individual site where SWPPP compliance was used as a tool for enforcement.	

C.6.e.iii.(4) ► Evaluation of Inspection Data

Describe your evaluation of the tracking data and data summaries and provide information on the evaluation results (e.g., data trends, typical BMP performance issues, comparisons to previous years, etc.).
Description: Construction activities in the downtown area where enforcement was stepped up in October (high priority sites) commonly consist of large garage excavations with minimal potential for stormwater to leave the perimeter and cause an illicit discharge. General issues were inadequate installation of BMPs, or housekeeping. Although enforcement actions are higher due to the increased effort on enforcement to start the wet season, after this month compliance was generally better than the prior year's wet season.

C.6.e.iii.(4) ► Evaluation of Inspection Program Effectiveness

Describe what appear to be your program's strengths and weaknesses, and identify needed improvements, including education and outreach.
Description: There may be opportunities to increase education for high priority sites in the downtown area that may not consider themselves as a high priority site. This should take place ahead of the wet season instead of relying on the first inspection in the month of October. This may ensure better compliance upon the start of the wet season.

C.6.f.iii ▶ Staff Training Summary			
Training Name	Training Dates	Topics Covered	No. of Inspectors in Attendance
SMCWPPP Construction Site Stormwater Inspector Workshop	3/20/2018	C.6 compliance, monthly inspections, containing a classroom and field session	4

Section 7 – Provision C.7. Public Information and Outreach

C.7.b.i.1 ► Outreach Campaign

Summarize outreach campaign. Include details such as messages, creative developed, and outreach media used. The detailed outreach campaign report may be included as an attachment. If outreach campaign is being done by participation in a countywide or regional program, refer to the separate countywide or regional Annual Report.

Summary:

See Section 7 and Section 9 of the SMCWPPP FY 17-18 Annual Report for a description of outreach campaign activities conducted at the countywide level.

The City conducted outreach on the Rain Barrel Rebate Program and the high school Green Infrastructure contest by promoting the programs on social media (the City's eNews, Medium blog, twitter account, and Next Door) and providing flyers at City facilities and events such as the annual Spring and Fall Cleanups, and summer festivals and events (4th of July, Salsa Fest, Local Farmers Market, et al).

C.7.c. Stormwater Pollution Prevention Education

The new contact information for Stormwater Pollution Prevention Education is Michael Patolo, Wastewater Superintendent (email: mpatolo@redwoodcity.org, phone: 650-780-7476). There were no other changes to the website address or how the information is publicized and maintained.

C.7.d ► Public Outreach and Citizen Involvement Events		
<p>Describe general approach to event selection. Provide a list of outreach materials and giveaways distributed. Use the following table for reporting and evaluating public outreach events</p> <p>See Section 7 of the SMCWPPP FY 17-18 Annual Report for a description of public outreach and citizen involvement events activities conducted at the countywide level.</p>		
Event Details	Description (messages, audience)	Evaluation of Effectiveness
<p>Provide event name, date, and location. Indicate if event is local, countywide or regional. Indicate if event is public outreach or citizen involvement.</p>	<p>Identify type of event (e.g., school fair, creek clean-up, storm drain stenciling, farmers market etc.), type of audience (school children, gardeners, homeowners etc.) and outreach messages (e.g., Enviroscene presentation, pesticides, stormwater awareness)</p>	<p>Provide general staff feedback on the event (e.g., success at reaching a broad spectrum of the community, well attended, good opportunity to talk to gardeners etc.). Provide other details such as:</p> <ul style="list-style-type: none"> • Success at reaching a broad spectrum of the community • Number of participants compared to previous years. • Post-event effectiveness assessment/evaluation results • Quantity/volume of materials cleaned up, and comparisons to previous efforts
<p>Seaport Centre Earth Day Event 4/19/18 Local business park - employees</p>	<p>The City was invited to table at the business park's Earth Day event by the property management company. Seaport Centre promoted the event through fliers, posters and social media.</p> <p>At the business park Earth Day events, we promote the volunteer clean-up events and pass out general stormwater pollution prevention information.</p>	<p>The corporate Earth Day events are typically well-attended, but there are many other vendor tables competing for attention. Popular giveaways like Rain Gauges tend to draw more people in.</p>
<p>Paragon Point Earth Day Event 4/18/18 Local business park – employees</p>	<p>The City was invited to table at the business park's Earth Day event by the property management company. Paragon Point promoted the event through fliers, posters and social media.</p>	<p>The corporate Earth Day events are typically well-attended, but there are many other vendor tables competing for attention. Popular giveaways like Rain Gauges tend to draw more people in.</p>

	At the business park Earth Day events, we promote the volunteer clean-up events and pass out general stormwater pollution prevention information.	
Oracle Earth Day Event 4/24/18 Large Corporation in RWC – Audience: general	The City was invited to table at Oracle’s Earth Day event. Oracle promoted the event to employees through fliers, posters and social media. At the Earth Day events, we promote the volunteer clean-up events and pass out general stormwater pollution prevention information.	The corporate Earth Day events are typically well-attended, but there are many other vendor tables competing for attention. Popular giveaways like Rain Gauges tend to draw more people in.
“Touch a Truck” event 4/28/18 County Parking lot, promoted throughout county. Audience – Families The City and the host of the event – a County-operated day care center, both promoted event through fliers, posters and social media, The event’s intended audience is families with small children.	Children are introduced to the storm drain system and maintenance through a handouts and activity books.	The Backhoe is a big draw for the age group, and an effective way to teach children and parents about the work the City does to keep our infrastructure including storm drains in good working order.
4 th of July Festival Annual festival – brings thousands to RWC	At the downtown summer and fall events, we promote upcoming programs such as any “Touch a Truck” events or BAWSCA landscape classes, and the fall programs such as the Coastal Clean Up or the high school Green Infrastructure contest. We pass out general stormwater pollution prevention information and giveaways reusable water bottles.	The summer and fall events bring in big crowds, however there are a lot of non-residents in attendance. Passing out the free giveaways tends to attract people to the booths.
Salsa Festival 9/30/17 Annual festival – brings thousands to RWC	At the downtown summer and fall events, we promote upcoming programs such as any events or BAWSCA landscape classes, and the fall programs such as the Coastal Clean Up or the high school Green Infrastructure contest. We pass out general	The summer and fall events bring in big crowds, however there are a lot of non-residents in attendance. Passing out the free giveaways tends to attract people to the booths.

	stormwater pollution prevention information and giveaways such as pet waste bags.	
Going Native Tour 4/7/18 City owned demonstration garden – audience: home gardeners	At garden tours and landscape classes, we focus on upcoming BAWSCA landscaping classes, Bay Friendly Gardening, sprinkler giveaways, mulch/compost giveaways, rain barrel rebates, and general stormwater pollution prevention information.	The garden tour is good for a specific audience, but short for outreach. Giveaways aren't appropriate for this event, but participants may be interested in upcoming landscape classes, or in taking information about rainbarrel rebates, sprinkler heads, etc.
Farmers Market 10/14/17	Local Farmers Market promoted upcoming programs such as BAWSCA landscape classes, and the fall programs such as the County Fixit Clinic and Hazardous waste events. We pass out general stormwater pollution prevention information and giveaways such as pet waste bags.	Local shoppers' attendance insures promotion to county residents.

C.7.e. ► Watershed Stewardship Collaborative Efforts

Summarize watershed stewardship collaborative efforts and/or refer to a regional report that provides details. Describe the level of effort and support given (e.g., funding only, active participation etc.). State efforts undertaken and the results of these efforts. If this activity is done regionally refer to a regional report.

Evaluate effectiveness by describing the following:

- Efforts undertaken
- Major accomplishments

Summary:

See Section 7 of the SMCWPPP FY 17-18 Annual Report for a description of watershed stewardship collaborative efforts conducted at the countywide level.

C.7.f. ► School-Age Children Outreach

Summarize school-age children outreach programs implemented. A detailed report may be included as an attachment.

Use the following table for reporting school-age children outreach efforts.

See Section 7 of the SMCWPPP FY 17-18 Annual Report for a description of school-age children outreach efforts conducted at the countywide level.

Program Details	Focus & Short Description	Number of Students/Teachers reached	Evaluation of Effectiveness
Provide the following information: Name Grade or level (elementary/ middle/ high)	Brief description, messages, methods of outreach used	Provide number or participants	Provide agency staff feedback. Report any other evaluation methods used (quiz, teacher feedback etc.). Attach evaluation summary if applicable.
Annual Redwood City Water Conservation Poster Contest Grades: K-5	Program provides a fun, artistic outlet for students to demonstrate their learnings and understanding about water conservation. Prior to creating a poster, teachers are asked to order water conservation curriculum and materials for each	1193 Students received contest materials or submitted posters.	12 entries are selected to be used in a Water Conservation Calendar. In total, we distributed 2800 calendars, helping to promote water conservation.

	<p>student to help educate them about the importance of conserving our drinking water.</p> <p>To promote participation, the program offers gift certificates to the classroom, school, teacher, and students at certain milestones or for submission winners.</p> <p>Submission winners are also presented an award by the Mayor at a City Council meeting.</p>	<p>32 classrooms visited with a total 995 students.</p>	
Indoor Water Wise Kit	<p>The Water Wise kits enable the students to perform a water audit in their homes and to install water-saving devices on select fixtures (e.g., showerheads and aerators). As part of this Program, RAP provides a water and energy conservation curriculum that can be easily implemented by teachers, easily understood and taken back into the home by the students, and includes methods to quantify the water and energy savings as a result of taking the actions described in the curriculum.</p>	<p>593 students, non-inclusive of the family members they engage at home. An average of 5.03 people per household.</p>	<p>Promotion of Sponsor Programs</p> <p>Resource Action Programs included inserts supplied by BAWSCA in each Water Wise Kit. These inserts offered information to the customers describing opportunities about other resource and water efficiency programs that BAWSCA offers in conjunction with the City of Redwood City. The materials were used to publicize and boost enrollment in additional water efficiency programs. These promotions included:</p> <ul style="list-style-type: none"> • High Efficiency Toilets Rebate • Lawn Be Gone! Program • Rain Barrel Rebate Program
"The H2O Show" by EarthCapades environmental vaudeville Grades: K-8	<p>Elementary-aged students and their teachers learn about the water cycle, where our water comes from, and how we can take care of and conserve it.</p>	<p>Audience count 2,550</p>	<p>Questionnaire completed by instructors showed that 98.4% rate the educational value, and would like to see the program continued in the future.</p>

Section 9 – Provision C.9 Pesticides Toxicity Controls

C.9.a. ► Implement IPM Policy or Ordinance							
Is your municipality implementing its IPM Policy/Ordinance and Standard Operating Procedures?				<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
If no, explain:							
Report implementation of IPM BMPs by showing trends in quantities and types of pesticides used, and suggest reasons for increases in use of pesticides that threaten water quality, specifically organophosphates, pyrethroids, carbamates fipronil, indoxacarb, diuron, and diamides. A separate report can be attached as evidence of your implementation.							
Trends in Quantities and Types of Pesticide Active Ingredients Used⁵²							
Pesticide Category and Specific Pesticide Active Ingredient Used	Amount ⁵³						
	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	
Organophosphates	None	None	None				
Active Ingredient Chlorpyrifos							
Active Ingredient Diazinon							
Active Ingredient Malathion							
Pyrethroids (see footnote #57 for list of active ingredients)	None	None	None				
Active Ingredient Type X							
Active Ingredient Type Y							
Carbamates	None	None	None				
Active Ingredient Carbaryl							
Active Ingredient Aldicarb							
Fipronil	None	None	None				

⁵²Includes all municipal structural and landscape pesticide usage by employees and contractors.

⁵³Weight or volume of the active ingredient, using same units for the product each year. Please specify units used. The active ingredients in any pesticide are listed on the label. The list of active ingredients that need to be reported in the pyrethroids class includes: metofluthrin, bifenthrin, cyfluthrin, beta-cyfluthrin, cypermethrin, deltamethrin, esfenvalerate, lambdacyhalothrin, and permethrin.

Indoxacarb	Reporting not required in FY 15-16	None	None			
Diuron	Reporting not required in FY 15-16	None	None			
Diamides	Reporting not required in FY 15-16	None	None			
Active Ingredient Chlorantraniliprole						
Active Ingredient Cyantraniliprole						
<p>IPM Tactics and Strategies Used: Removal of plants that require frequent pesticide applications, Replacing invasive plants with natives, Preventive actions such as sealing holes and gaps in structures, improving sanitation, Use of baits and traps instead of broadcast pesticides, Mulching of weed-prone areas. Mechanical methods for weed removal, and Switch to bio pesticides and organic herbicides for weed and insect control.</p>						

C.9.b ▶ Train Municipal Employees	
Enter the number of employees that applied or used pesticides (including herbicides) within the scope of their duties this reporting year.	20
Enter the number of these employees who received training on your IPM policy and IPM standard operating procedures within this reporting year.	20
Enter the percentage of municipal employees who apply pesticides who have received training in the IPM policy and IPM standard operating procedures within this reporting year.	100%
Type of Training: All Redwood City Parks staff who handle pesticides receive annual IPM training during the annual pesticide safety training (March 22, 2018 - 4 hour training) 9 Redwood City Staff members attended the SMCWPPP Landscape IPM Training (March 7, 2018) 6 Redwood City Parks Department staff members hold CA DPR QAC certs. One staff members holds a CA DPR PCA license. (Annual DPR approved continuing education training needed to maintain certs and License – much of it IPM-oriented.)	

C.9.c ▶ Require Contractors to Implement IPM			
Did your municipality contract with any pesticide service provider in the reporting year, for either landscaping or structural pest control?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No
If yes, did your municipality evaluate the contractor's list of pesticides and amounts of active ingredients used?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No,
If your municipality contracted with any pesticide service provider, briefly describe how contractor compliance with IPM Policy/Ordinance and SOPs was monitored The City of Redwood City's IPM Policy and contract specifications require that contractors follow IPM techniques, and use pesticides only as a last resort. This is routinely conveyed to the contractor via meetings, phone calls, and/or emails. Additionally, contractors are not allowed to use pesticides of concern. Contractors are required to obtain City of Redwood City staff's approval before applying pesticides, and submit documentation describing the IPM techniques that were implemented. If needed, City of Redwood City staff conducts field visits to confirm the use of IPM methods, such as monitoring for pests and using non-chemical methods.			
If your agency did not evaluate the contractor's list of pesticides and amounts of active ingredients used, provide an explanation here.			

C.9.d ▶ Interface with County Agricultural Commissioners			
Did your municipality communicate with the County Agricultural Commissioner to: (a) get input and assistance on urban pest management practices and use of pesticides or (b) inform them of water quality issues related to pesticides?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No
<p>If yes, summarize the communication. If no, explain. See Section 9 of the SMCWPPP FY 17-18 Annual Report for a summary of communication with the San Mateo County Agricultural Commissioner. Redwood City Parks Department regularly interacts with biologists from the San Mateo Co. Ag Department: Operators I.D and permits are obtained from County Ag and the biologist does an annual inspection of Redwood City Parks headquarters, including inspection of storage facilities, all records for pesticide applications and all staff pesticide safety training records. The Parks staff members also attend CA DPR approved continuing education seminars where County Ag biologists usually present a segment on Laws and Regulations.</p>			
Did your municipality report any observed or citizen-reported violations of pesticide regulations (e.g., illegal handling and applications of pesticides) associated with stormwater management, particularly the California Department of Pesticide Regulation (DPR) surface water protection regulations for outdoor, nonagricultural use of pyrethroid pesticides by any person performing pest control for hire.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/> No
<p>If yes, provide a summary of improper pesticide usage reported to the County Agricultural Commissioner and follow-up actions taken to correct any violations. A separate report can be attached as your summary.</p>			

C.9.e.ii (1) ▶ Public Outreach: Point of Purchase
Provide a summary of public outreach at point of purchase, and any measurable awareness and behavior changes resulting from outreach (here or in a separate report); OR reference a report of a regional effort for public outreach in which your agency participates.
<p>Summary: See Section 9 of the SMCWPPP FY 17-18 Annual Report for a description of point of purchase public outreach efforts conducted at the countywide level and regionally.</p>

C.9.e.ii (2) ▶ Public Outreach: Pest Control Contracting Outreach
Provide a summary of outreach to residents who use or contract for structural pest control and landscape professionals); AND/OR reference a report of a regional effort for outreach to residents who hire pest control and landscape professionals in which your agency participates.
<p>Summary: See Section 9 of the SMCWPPP FY 17-18 Annual Report for a summary of outreach to residents who hire pest control and landscape professionals.</p>

C.9.e.ii.(3) ► Public Outreach: Pest Control Operators

Provide a summary of public outreach to pest control operators and landscapers and reduced pesticide use (here or in a separate report); **AND/OR** reference a report of a regional effort for outreach to pest control operators and landscapers in which your agency participates.

Summary:

See Section 9 of the SMCWPPP FY 17-18 Annual Report for a summary of pest control operators and landscapers to reduce pesticide use.

C.9.f ► Track and Participate in Relevant Regulatory Processes

Summarize participation efforts, information submitted, and how regulatory actions were affected; **AND/OR** reference a regional report that summarizes regional participation efforts, information submitted, and how regulatory actions were affected.

Summary:

During FY 17-18, we participated in regulatory processes related to pesticides through contributions to the Countywide Program, BASMAA and CASQA. For additional information, see the Regional Report submitted by BASMAA on behalf of all MRP Permittees.

Section 10 - Provision C.10 Trash Load Reduction

C.10.a.i ► Trash Load Reduction Summary	
For population-based Permittees, provide the overall trash reduction percentage achieved to-date within the jurisdictional area of your municipality that generates problematic trash levels (i.e., Very High, High or Moderate trash generation). Base the reduction percentage on the information presented in C.10.b i-iv and C.10.e.i-ii. Provide a discussion of the calculation used to produce the reduction percentage.	
Trash Load Reductions	
Percent Trash Reduction in All Trash Management Areas (TMAs) due to Trash Full Capture Systems (as reported C.10.b.i)	52.7%
Percent Trash Reduction in all TMAs due to Control Measures Other than Trash Full Capture Systems (as reported in C.10.b.ii) ⁵⁴	20.8%
Percent Trash Reduction due to Jurisdictional-wide Source Control Actions (as reported in C.10.b.iv)	10.0%
SubTotal for Above Actions	83.6%
Trash Offsets (Optional)	
Offset Associated with Additional Creek and Shoreline Cleanups (as reported in C.10.e.i)	10.0%
Offset Associated with Direct Trash Discharges (as reported in C.10.e.ii)	0.0%
Total (Jurisdictional-wide) % Trash Load Reduction through FY 2017-18	93.6%
<p>Discussion of Trash Load Reduction Calculation: The City attained and reported 77.3% trash load reduction (including trash offsets) in its FY 16-17 Annual Report. During FY 17-18, the City continued to implement a robust trash control measure program. This helped the City maintain and increase its trash load reduction above the mandatory 70% trash load reduction requirement included in the MRP. The total (jurisdiction-wide) percent trash load reduction in FY 17-18 is 83.6% (including trash offsets).</p> <p>The most recent version of the City's Baseline Trash Generation Map can be downloaded at: http://www.flowstobay.org/content/municipal-trash-generation-maps</p>	

⁵⁴ See Appendix 10-1 for changes between 2009 and FY 17-18 in trash generation by TMA as a result of Full Capture Systems and Other Measures.

C.10.a.ii.b ► Trash Generation Area Management - Identification of Private Drainages >10,000 ft²

State (Y/N) if your agency completed Permit Provision C.10.a.ii.b. If Yes, attach a map (or other record) or provide a website link to a map (or other record) of the location of lands >10,000 ft² (in Very High, High, and Moderate trash generation areas) that are plumbed directly to the Permittee's storm drain systems, including trash control status of these areas. If No, provide explanation of why the provision was not completed and the estimated date when the provision will be completed.

Did your agency complete Permit Provision C.10.a.ii.b?	X	Yes		No		NA
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If No, provide explanation and estimated completion date:

Not Applicable

Description of the process used to identify applicable areas and their trash control status:

The City worked through SMCWPPP to identify the location of land areas >10,000 ft² in very high, high, and moderate trash generation areas (as depicted on the City's baseline trash generation map) that are plumbed directly to the City's MS4. In summary, applicable land areas were identified using existing data/information and a combination of desktop analyses and field visits. Land areas <10,000 ft², or areas identified as low trash generating on the City's baseline trash generation maps, or are currently treated by full capture systems were excluded from the analysis. The preliminary trash control status of these land areas were identified by conducting virtual (desktop) on-land visual trash assessments (OVTAs). For a complete description of the methods and process used to identify applicable land areas and their trash control status, please see the SMCWPPP FY 17-18 Annual Report.

URL link to Map:

<http://www.flowstobay.org/content/municipal-trash-generation-maps>

C.10.a.iii ► Mandatory Trash Full Capture Systems		
Provide the following:		
1) Total number and types of full capture systems (publicly and privately-owned) installed prior to FY 17-18, during FY 17-18, and to-date, including inlet-based and large flow-through or end-of-pipe systems, and qualifying low impact development (LID) required by permit provision C.3.		
2) Total land area (acres) treated by full capture systems for population-based Permittees and total number of systems for non-population based Permittees compared to the total required by the permit.		
Type of System	# of Systems	Areas Treated (Acres)
Installed Prior to FY 17-18		
Connector Pipe Screens (Public)	470	778.0
Installed in FY 17-18		
None	-	-
Total for all Systems Installed To-date	470	778.0
Treatment Acreage Required by Permit (Population-based Permittees)		93
Total # of Systems Required by Permit (Non-population-based Permittees)		NA

C.10.b.i ► Trash Reduction - Full Capture Systems

Provide the following:

- 1) Jurisdictional-wide trash reduction in FY 17-18 attributable to trash full capture systems implemented in each TMA;
- 2) The total number of full capture systems installed to-date in your jurisdiction;
- 3) The percentage of systems in FY 17-18 that exhibited significant plugged/blinded screens or were >50% full when inspected or maintained;
- 4) A narrative summary of any maintenance issues and the corrective actions taken to avoid future full capture system performance issues; and
- 5) A certification that each full capture system is operated and maintained to meet the full capture system requirements in the permit.

TMA	Jurisdiction-wide Reduction (%)	Total # of Full Capture Systems	% of Systems Exhibiting Plugged/Blinded Screens or >50% full in FY 17-18	Summary of Maintenance Issues and Corrective Actions
1	33.7%	470	Citywide, approximately 28% of systems installed before FY 16-17 exhibited Plugged/Blinded Screens or >50% full at the time of maintenance.	Maintenance of full-trash capture devices, including cleaning and inspection, occurs at least once prior to the wet season, after each major storm event, and as necessary. City staff performs cleanings with a Vactor truck, and a daily report is completed summarizing cleaning activities on the Public Works electronic work order management system. For FY 17-18, the City did not have any performance issues or failures associated with any of the devices installed.
2	3.0%			
3	12.8%			
4	1.2%			
5	0.5%			
6	0.6%			
Total	52.7%*			

Certification Statement: The City of Redwood City certifies that a full capture system maintenance and operation program is currently being implemented to maintain all applicable systems in manner that meets the full capture system requirements included in the Permit.

*The Total jurisdiction-wide reduction reported for full capture systems includes 0.9% reduction for treatment of 22.6 acres of non-jurisdictional public K-12, college and university school land areas.

C.10.b.ii ► Trash Reduction – Other Trash Management Actions (PART A)

Provide a summary of trash control actions other than full capture systems or jurisdictional source controls that were implemented within each TMA, including the types of actions, levels and areal extent of implementation, and whether actions are new, including initiation date.

TMA	Summary of Trash Control Actions Other than Full Capture Systems
1	<p>The City contracts with RCIA for on-land cleanups within the downtown area. Its staff is tasked with removing litter for several per day, 5 days per week. To combat cigarette butts, the City has installed approximately 20 specialty cigarette butt bins within the downtown area and some City-owned facilities. RCIA is responsible for the maintenance and cleaning of said bins.</p> <p>The City sweeps the downtown area four times per week, between the hours of 4:00am to 6:00am. All other areas, including residential, have been swept once per month prior to and continuing after the MRP effective date. In early 2016, the City moved to twice per month street sweeping schedules.</p> <p>The City entered into a maintenance agreement with CalTrans to sweep the following:</p> <ul style="list-style-type: none"> o 2.4 mile stretch of El Camino Real (CA Highway 82) from Berkshire Avenue to the northwest City limits at Cordilleras Creek, once per week. o 2.9 mil stretch of Woodside Road (CA Highway 84) between Broadway and Alameda de las Pulgas, once per month <p>In 2008, the City implemented a pilot parking enforcement for street sweeping on Douglas Ave (between Spring St. and Middlefield Road) and Marshall Street (between Chestnut St. and Maple St.). Signs state that there is no parking on the last Thursday or last Friday of each month between 7:00am and 9:00am. Consequently, the sweeper is able to reach the curb and the City intends to continue with the program due to the success in reducing trash loads in this area.</p> <p>The City's Parks and Recreation Department perform on-land cleanups and trash container management seven days per week for Hoover Park, Jardin de Ninos and Mezes Park. A total of 19 full-time staff and 5 seasonal staff are tasked with maintaining the parks within the City. In addition, Parks and Recreation also perform on-land cleanups of the 2.4 mile stretch of El Camino Real's median.</p> <p>The City also hosts two annual on-land cleanups (spring and fall), with several hundred volunteers participating to remove litter and illegally dumped trash from schools, the waterfront, parks and streets. The City-supported Pride and Beautification Committee sponsors the events and Recology provides support through services, staff, and funding.</p> <p>The City has increased homeless encampment cleanups in FY 17-18, conducting 5 cleanups in TMA 1 at on Beech at Marshall Street on 3/22/18, on Shasta at Woodside Road on 4/16/18, at the rear of 1025 Stambaugh on 4/30/18, on the 200 block of Cedar on 5/23/18, and on the 600 block of Shasta on 5/23/18. These cleanups removed 150 cubic feet, 2,090 cubic feet, 500 cubic feet, 750 cubic feet, and 500 cubic feet of unbagged trash, respectively, as well as 25 bags of trash at the Shasta at Woodside clean up on 4/16/18.</p>

<p>2</p>	<p>All streets within TMA #2 have been swept once per month prior to and continuing after the MRP effective date. In early 2016, the City moved to twice per month street sweeping schedules. Due to the street sweeping times in commercial and industrial areas, parked cars are not a major issue and the sweeper is able to effectively reach the curb. The presence of parked cars within the residential areas is highly variable due to the time window.</p> <p>The Parks and Recreation Department perform on-land cleanups and trash container management daily (7 days per week) as part of their maintenance and landscaping activities at Andrew Spinus Park.</p>
<p>3</p>	<p>Street sweeping occurs once per week on El Camino Real and Woodside Road. All other streets within TMA #3 have been swept once per month prior to and continuing after the MRP effective date. In early 2016, the City moved to twice per month street sweeping schedules. Due to the street sweeping times in commercial and industrial areas, parked cars are not a major issue and the sweeper is able to effectively reach the curb. The presence of parked cars within the residential areas is highly variable due to the time window.</p> <p>The Parks and Recreation Department perform on-land cleanups and manage trash containers daily (7 days per week). The following four parks fall within TMA #3: Hawes Park, Palm Park, Fleishman Park, Linden Park. In addition, the Parks and Recreation Department conducts on-land cleanup of the El Camino Real median within TMA #3. Typical trash removed includes food and beverage ware, food packaging, and cigarette butts.</p> <p>Two annual on-land cleanups by the Pride and Beautification Committee also occur with the boundaries of TMA #3. The areas included in the cleanups are: Union Cemetery and James Ave between Elwood St. and El Camino Real.</p> <p>The City conducted 3 homeless encampment cleanups in TMA 3 in FY 17-18 at the Hazel Street on-ramp at Woodside Road on 9/18/18, 2/1/18, and on 3/9/18. These cleanups removed 300 cubic feet, 600 cubic feet, and 375 cubic feet, respectively, of unbagged trash from the area.</p>
<p>4</p>	<p>El Camino Real is swept once per week, and all other streets within TMA #4 have been swept once per month prior to and continuing after the MRP effective date. In early 2016, the City moved to twice per month street sweeping schedules. Due to the street sweeping times in commercial and industrial areas, parked cars are not a major issue and the sweeper is able to effectively reach the curb. The presence of parked cars within the residential areas is highly variable due to the time window.</p> <p>In addition, the Parks and Recreation Department conducts on-land cleanup of the El Camino Real median within TMA #4 weekly or twice per week, depending on season. Typical trash removed includes food and beverage ware, food packaging, and cigarette butts.</p>

<p>5</p>	<p>All streets within TMA #5 have been swept once per month prior to and continuing after the MRP effective date. In early 2016, the City moved to twice per month street sweeping schedules. Due to the street sweeping times in commercial and industrial areas, parked cars are not a major issue and the sweeper is able to effectively reach the curb. The presence of parked cars within the residential areas is highly variable due to the time window.</p> <p>Two annual on-land cleanups by the Pride and Beautification Committee also occur with the boundaries of TMA #5. The area included in the cleanup is Bayfront Canal, between Douglas Court and the City limits.</p> <p>In FY 17-18, the City conducted 2 homeless encampment cleanups in TMA 5 at the 1300 block of Maple on 9/19/17 and on Stein Am Rhein on 4/26/18. These cleanups removed 3,660 cubic feet and 750 cubic feet of unbagged trash from the respective areas, as well as thirty 32-gallon bags of trash from the cleanup at the 1300 block of Maple.</p>
<p>6</p>	<p>All streets within TMA #6 have been swept once per month prior to and continuing after the MRP effective date. In early 2016, the City moved to twice per month street sweeping schedules. Due to the street sweeping times in commercial and industrial areas, parked cars are not a major issue and the sweeper is able to effectively reach the curb. The presence of parked cars within the residential areas is highly variable due to the time window.</p> <p>The Parks and Recreation Department perform on-land cleanups and manage trash containers daily (7 days per week). The following sixteen parks fall within TMA #6: Dolphin Park, Dove Beeger Park, Garrett Park, Maddux Park, Marlin Park, Mariner Park, Red Morton Community Park, Sandpiper Park, Shannon Park, Shorebird Park, Shore Dogs Park, Stafford Park, Stulsaft Park, Wellesley Crescent Park, Westwood Park, 3.5 acre park on Shearwater Parkway. In addition, the Parks and Recreation Department perform on-land cleanups of the following thorough fares weekly: Redwood Shores Parkway, Radio Road, Marine Parkway median, Shearwater Parkway median, Shell Parkway median, Bridge Parkway (which includes Redwood Shores library grounds).</p> <p>In collaboration with the Redwood Shores Community Association, the City also supports the annual Redwood Shores Levee Cleanup event where volunteers remove litter illegally dumped from the waterfront and levee. Volunteers removed 48 cubic feet of unbagged trash from the levee on 8/26/17, as well as ten 42-gallon bags of trash.</p>

C.10.b.ii ► Trash Reduction – Other Trash Management Actions (PART B)

Provide the following:

- 1) A summary of the on-land visual assessments in each TMA (or control measure area), including the street miles or acres available for assessment (i.e., those associated with VH, H, or M trash generation areas not treated by full capture systems), the street miles or acres assessed, the % of available street miles or acres assessed, and the average number of assessments conducted per site within the TMA; and
- 2) Percent jurisdictional-wide trash reduction in FY 17-18 attributable to trash management actions other than full capture systems implemented in each TMA; OR
- 3) Indicate that no on-land visual assessments were performed.

If no on-land visual assessments were performed, check here and state why:

Explanation:

TMA ID <i>or (as applicable)</i> Control Measure Area	Total Street Miles ⁵⁵ or Acres Available for Assessment	Summary of On-land Visual Assessments ⁵⁶			Jurisdictional-wide Reduction (%)
		Street Miles or Acres Assessed	% of Available Street Miles or Acres Assessed	Avg. # of Assessments Conducted at Each Site ^{57, 58}	
1	7.57	1.71	22.6%	2.7	6.5%
2	1.17	0.80	68.6%	2.5	0.1%
3	6.27	1.14	18.2%	3.0	9.2%
4	1.28	0.64	49.9%	4.0	1.3%
5	3.34	0.49	14.8%	5.5	2.6%
6	2.90	0.90	31.1%	6.2	1.1%
Total		5.68	-	-	20.8%

⁵⁵ Street miles are defined as the street lengths and do not include curbs associated with medians.

⁵⁶ Assessments conducted between July 2016 and July 2018 are assumed to be representative of trash levels in FY 17-18 and were therefore used to calculate the jurisdictional-wide reductions reported in this section.

⁵⁷ Each assessment site is roughly 1,000 feet in length.

⁵⁸ Based on analyses conducted as part of the BASMAA *Tracking California's Trash* project (BASMAA 2017) funded by the State Water Resources Control Board, the optimal number of assessment events to detect an improvement from baseline trash levels at a site is between 4 and 6 per site.

C.10.b.iv ► Trash Reduction – Source Controls

Provide a description of each jurisdictional-wide trash source control action implemented to-date. For each control action, identify the trash reduction evaluation method(s) used to demonstrate on-going reductions, summarize the results of the evaluation(s), and estimate the associated reduction of trash within your jurisdictional area. Note: There is a maximum of 10% total credit for source controls.

Source Control Action	Summary Description & Dominant Trash Sources and Types Targeted	Evaluation/Enforcement Method(s)	Summary of Evaluation/Enforcement Results To-date	% Reduction	Total Reduction Credit (%)
Single-Use Bag Ordinance	Redwood City's City Council adopted a reusable bag ordinance on March 25, 2013, which prohibits single-use plastic bags from being distributed. The ordinance can be found here: http://documents.redwoodcity.org/publicweblink/0/doc/91264/Page1.aspx , and the resolution can be found here: http://documents.redwoodcity.org/publicweblink/0/doc/90806/Page1.aspx . Although enforcement and implementation of the ordinance went into effect on October 1, 2013, affected businesses were allowed to implement the plastic bag ban and begin charging for paper bags prior to the October 1 start-date. Enforcement of the bag ordinance is being conducted by San Mateo County and will be complaint-based. Prior to adoption of the ordinance, two public informational meetings were held to help residents and businesses understand the scope and impact. The two meetings were held at the City downtown	On behalf of all SMCWPPP Permittees, the County of San Mateo conducted assessments evaluating the effectiveness of the single use plastic bag ban in municipalities within San Mateo County. Assessments conducted by the County included audits of businesses and surveys of customer bag usage at many businesses in San Mateo County. Additionally, the number of complaints by customers was also tracked by the County. The results of assessments conducted by these cities are assumed to be representative of all SMCWPPP Permittees, given the consistency between the scope, implementation, and enforcement of the ordinances among the municipalities. The City developed its % trash reduced estimate using the following assumptions: 1) Single use plastic bags comprise 8% of the trash discharged from stormwater conveyances, based on the Regional Trash Generation Study conducted by BASMAA; 2) 95% of single use plastic bags distributed in the City are affected by the implementation of the ordinance, based on the County of San Mateo's Environmental Impact Report; and 3) Of the bags affected by the ordinance, there are now 90% less bags being distributed, based on customer complaints received by the County Department of Environmental Health Services. This is conservative estimate given that in FY 13-14 Environmental Services only received complaints	Results of assessments conducted by the County of San Mateo on behalf of all municipalities in San Mateo County indicate that the City's ordinance is effective in reducing the number of single use plastic bags in stormwater discharges. This preliminary conclusion is based on the very small number of complaints received from customers about businesses in San Mateo County that are continuing to use single use plastic bags after ordinances were adopted. Assuming single use bags are 8% of the trash observed in stormwater discharges, the City concludes that there has been a 7% (i.e., 8% x 86% effectiveness in reducing bags) reduction in trash in stormwater discharges as a result of the City's ordinance.	7%	10% (Maximum)

C.10.b.iv ► Trash Reduction – Source Controls					
Provide a description of each jurisdictional-wide trash source control action implemented to-date. For each control action, identify the trash reduction evaluation method(s) used to demonstrate on-going reductions, summarize the results of the evaluation(s), and estimate the associated reduction of trash within your jurisdictional area. Note: There is a maximum of 10% total credit for source controls.					
	library and were held on Wednesday, February 13, 2013 at 2pm and Tuesday, February 19, 2013 at 7pm.	about 4, of the over 1900 businesses in San Mateo County affected by the single-use plastic bag ordinance.			
Expanded Polystyrene Food Service Ware Ordinance	On May 7, 2012, Redwood City adopted an ordinance which prohibits Styrofoam. The ban went into effect on January 1, 2013. In conjunction with the City, San Mateo County reached out to businesses affected prior to January 1, 2013 to inform them of the ban. The County's Environmental Health Division administers and enforces the ordinance and can issue fines against offenders.	Although the City has adopted and implemented an ordinance prohibiting the distribution of EPS food ware by food vendors, evaluations of the effectiveness of the ordinance have not yet been conducted. For the purpose of estimating trash reductions in stormwater discharges associated with the ordinance, the results of assessments conducted by the cities of Los Altos and Palo Alto were used to represent the reduction of trash associated with the City's ordinance. Assessments conducted by these cities were conducted prior to and following the effective date of their ordinances, and include audits of businesses and/or assessments of EPS food ware observed on streets, storm drains and local creeks. The results of assessments conducted by these cities are assumed to be representative of the effectiveness of the City's ordinance because the implementation (including enforcement) of the City's ordinance is similar to the City of Los Altos' and Palo Alto's. The City developed its % trash reduced estimate using the following assumptions: 1.) EPS food ware comprises 6% of the trash discharged from stormwater conveyances, based on the Regional Trash Generation Study conducted by BASMAA;	Results of assessments that are representative of the City, but were conducted by the cities of Los Altos and Palo Alto, indicate that City's ordinance is effective in reducing EPS food ware in stormwater discharges. This conclusion is based on the following assessment result –an average of 95% of businesses affected by the ordinance are no longer distributing EPS food ware post-ordinance. Based on these results, the estimated average reduction of EPS food ware in stormwater discharges is 90%. Assuming EPS food ware is 6% of the trash observed in stormwater discharges, the City concludes that there has been a 5% (i.e., 6% x 90%) reduction in trash in stormwater	5%	

C.10.b.iv ► Trash Reduction – Source Controls

Provide a description of each jurisdictional-wide trash source control action implemented to-date. For each control action, identify the trash reduction evaluation method(s) used to demonstrate on-going reductions, summarize the results of the evaluation(s), and estimate the associated reduction of trash within your jurisdictional area. Note: There is a maximum of 10% total credit for source controls.

		2) 80% of EPS food ware distributed by food vendors or sold via stores in the City is affected by the implementation of the ordinance; and 3) There is now 95% less EPS food ware being distributed, sold and/or observed in the environment, based on assessments conducted by the City of Palo Alto and City of Los Altos.	discharges as a result of the ordinance.		
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C.10.b.v ► Trash Reduction – Receiving Water Monitoring

Report on the progress of developing and testing your agency’s trash receiving water monitoring program.

In FY 17-18, the City began implementing the BASMAA regional Trash Monitoring Program Plan that was approved by the Water Board’s Executive Officer. Implementation included preparing for and conducting qualitative assessments and quantitative monitoring in receiving water locations in San Mateo County. Implementation occurred through the City’s participation in the San Mateo Countywide Water Pollution Prevention Program (SMCWPPP). Additional information on accomplishments in FY 17-18 can be found in the Trash Receiving Water Monitoring Progress Report included in the SMCWPPP FY 17-18 Annual Report.

C.10.c ► Trash Hot Spot Cleanups

Provide the FY 17-18 cleanup date and volume of trash removed during each MRP-required Trash Hot Spot cleanup during each fiscal year listed. Indicate whether the site was a new site in FY 17-18.

Trash Hot Spot	New Site in FY 17-18 (Y/N)	FY 17-18 Cleanup Date(s)	Volume of Trash Removed (cubic yards)				
			FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
RCY01	N	9/16/2017	3.0	2.2	1.0	14.4*	0.27
RCY02	N	9/16/2017	2.5	1.8	9.1	8.1	2.23
RCY03	N	9/16/2017	5.2	3.9	2.5	4.4	1.09

* In FY 16-17, this site was impacted by homeless encampments.

C.10.d ► Long-Term Trash Load Reduction Plan	
Provide descriptions of significant revisions made to your Long-term Trash Load Reduction Plan submitted to the Water Board in February 2014. Describe significant changes made to primary or secondary trash management areas (TMA), baseline trash generation maps, control measures, or time schedules identified in your plan. Indicate whether your baseline trash generation map was revised and if so what information was collected to support the revision. If your baseline trash generation map was revised, attach it to your Annual Report.	
Description of Significant Revision	Associated TMA
In FY 15-16, consistent with all MRP Permittees, all public K-12 schools, college and university parcels were made non-jurisdictional on the City's baseline trash generation maps. Under California Government Code Sections 4450 through 4461, the construction, modification, or alternation of facilities and/or structures on these parcels are under the jurisdiction of the California Division of State Architect and not the City. The public right-of-way (e.g., streets and sidewalks) surrounding these parcels remain as jurisdictional on the City's baseline trash generation maps. The City's revised baseline trash generation map was included as Appendix 10-2 of the FY 15-16 Annual Report.	All Applicable
In 2016, the City moved to twice a month street sweeping schedules.	All
In August of 2013, the City acquired a Madvac LR50 ride-on vacuum to complement existing street sweeping and further reduce trash loads within the downtown area. The City has discontinued use of the Madvac unit but increased service levels in the downtown area due to the assistance of the Redwood City Improvement District (RCIA), which began supporting additional cleaning crews from outside vendors. The City has also installed additional trash capture devices in TMA 1 in lieu of operating the Madvac.	1
The trash control implementation schedule of the Long-term Trash Load Reduction Plan indicates partial-capture treatment devices in TMA 1 and full- and partial-capture treatment devices in TMAs 3 and 4 to be installed in FY 15-16, as well as additional enhanced control measures for full-capture devices in TMA 1. Instead of partial-capture treatment devices in TMAs 1, 3, and 4 for FY 15-16, only full-capture devices were installed and the devices were installed in TMAs 1, 2, 3, 4, and 6. Installation was completed in FY 16-17.	1, 2, 3, 4, 6
The City continued increased homeless encampment cleanups in FY 17-18, conducting 5 cleanups in TMA 1 on Beech at Marshall Street on 3/22/18, on Shasta at Woodside on 4/16/18, at the rear of 1025 Stambaugh on 4/30/18, on the 200 block of Cedar Street on 5/23/18, and on the 600 block of Shasta also on 5/23/18; three cleanups in TMA 3 at the Hazel Street on-ramp to Woodside Road on 9/18/17, 2/1/18, and 3/9/18; and two cleanups in TMA 5 at the 1300 block of Maple and at Stein Am Rhein on 9/19/17 and 4/26/2018, respectively. The City assisted with the annual volunteer cleanup of the Redwood Shores Levee in TMA 6 on 8/26/2018 as well.	1, 3, 5, 6

C.10.e. ► Trash Reduction Offsets (Optional)

Provide a summary description of each offset program implemented, the volume of trash removed, and the offset claimed in FY 17-18. Also, for additional creek and shoreline cleanups, describe the number and frequency of cleanups conducted, and the locations and cleanup dates. For direct discharge control programs approved by the Water Board Executive Officer, also describe the results of the assessments conducted in receiving waters to demonstrate the effectiveness of the control program. Include an Appendix that provides the calculations and data used to determine the trash reduction offset.

Offset Program	Summary Description of Actions and Assessment Results	Volume of Trash (CY) Removed/Controlled in FY 17-18	Offset (% Jurisdiction-wide Reduction)
Additional Creek and Shoreline Cleanups (Max 10% Offset)	<p>In addition to the MRP-required trash hot spot cleanup (for FY 17-18, the annual Coastal Cleanup on 9/16/2017), several creek and shoreline clean-ups, including “Romancing the Creek” (2/9/2018) and a citywide clean-up event on Earth Day (4/21/2018), were conducted at the Bayfront Canal, Little River/Sequoia, and Redwood Creek:</p> <ul style="list-style-type: none"> On 02/9/2018, the City supported the annual “Romancing the Creek” volunteer-lead cleanup at Redwood Creek (RCY02) near Veterans and Docktown. 944 cubic feet of unbagged trash was removed by volunteers and City staff and forty 32-gallon bags of trash. City work crews performed cleanups at Little River (RCY01) near James and California and Bayfront Canal (RCY03) near Douglas Court on 6/21/18. These cleanups removed three 42-gallon bags of trash from each of the two hot spot areas. The City-sponsored Annual Spring Cleanup was held on 4/21/2018. Volunteers removed three 55-gallon bags from the Little River Creek area (RYC01), seven 55-gallon bags from the Redwood Creek area (RCY02), and five 55-gallon bags and 64 cubic feet of unbagged trash from the Bayfront Canal area (RCY03). 	<p>49</p>	<p>10%</p>
Direct Trash Discharge Controls (Max 15% Offset)	<p>NA</p>	<p>NA</p>	<p>NA</p>

Appendix 10-1. Baseline trash generation and areas addressed by full capture systems and other control measures in Fiscal Year 17-18.⁵⁹

TMA	2009 Baseline Trash Generation (Acres)					Trash Generation (Acres) in FY 17-18 After Accounting for Full Capture Systems					Jurisdiction-wide Reduction via Full Capture Systems (%)	Trash Generation (Acres) in FY 17-18 After Accounting for Full Capture Systems <u>and</u> Other Control Measures					Jurisdiction-wide Reduction via <u>Other Control Measures</u> (%)	Jurisdiction-wide Reduction via Full Capture <u>AND</u> Other Control Measures (%)
	L	M	H	VH	Total	L	M	H	VH	Total		L	M	H	VH	Total		
1	44	264	378	1	687	422	121	143	1	687	33.7%	449	169	63	6	687	6.5%	40.3%
2	54	54	22	0	130	97	29	4	0	130	3.0%	98	28	4	0	130	0.1%	3.1%
3	38	231	173	0	442	242	96	104	0	442	12.8%	293	126	23	0	442	9.2%	21.9%
4	63	42	16	0	121	80	32	9	0	121	1.2%	96	25	0	0	121	1.3%	2.5%
5	288	105	13	0	406	304	89	13	0	406	0.5%	358	45	3	0	406	2.6%	3.1%
6	7,077	85	2	0	7,164	7,093	71	0	0	7,164	0.6%	7,142	17	5	0	7,164	1.1%	1.8%
Totals	7,563	781	604	1	8,950	8,238	438	273	1	8,950	52.7%*	8,436	410	98	6	8,950	20.8%	73.6%

*The Total jurisdiction-wide reduction reported for full capture systems includes 0.9% reduction for treatment of 22.6 acres of non-jurisdictional public K-12, college and university school land areas.

⁵⁹ Due to rounding, total acres and percentages presented in this table may be slightly different than the sum of the acres/percentages in the corresponding rows/columns (e.g., differ by 1 acre or 0.1%).

Section 11 - Provision C.11 Mercury Controls

C.11.a ► Implement Control Measures to Achieve Mercury Load Reductions

C.11.b ► Assess Mercury Load Reductions from Stormwater

See the SMCWPPP FY 2017-18 Annual Report for updated information on:

- Documentation of mercury control measures implemented in our agency’s jurisdictional area for which load reductions will be reported and the associated management areas;
- A description of how the BASMAA Interim Accounting Methodology⁶⁰ was used to calculate the mercury load reduced by each control measure implemented in our agency’s jurisdictional area and the calculation results (i.e., the estimated mercury load reduced by each control measure);
- Supporting data and information necessary to substantiate the load reduction estimates; and
- For Executive Officer approval, any refinements, if necessary, to the measurement and estimation methodologies to assess mercury load reductions in the subsequent permit.

C.11.c ► Plan and Implement Green Infrastructure to Reduce Mercury Loads

See the SMCWPPP FY 2017-18 Annual Report for information on the quantitative relationship between green infrastructure implementation and mercury load reductions, including all data used and a full description of models and model inputs relied on to establish this relationship.

C.11.e ► Implement a Risk Reduction Program

A summary of countywide and regional accomplishments for this sub-provision are included in the SMCWPPP FY 2017-18 Annual Report.

⁶⁰BASMAA 2017. Interim Accounting Methodology for TMDL Loads Reduced, Version 1.0. Prepared for BASMAA by Geosyntec Consultants and EOA, Inc., September 19, 2016.

Section 12 - Provision C.12 PCBs Controls

C.12.a ► Implement Control Measures to Achieve PCBs Load Reductions
C.12.b ► Assess PCBs Load Reductions from Stormwater

See the SMCWPPP FY 2017-18 Annual Report for:

- Documentation of PCBs control measures implemented in our agency's jurisdictional area for which load reductions will be reported and the associated management areas;
- A description of how the BASMAA Interim Accounting Methodology⁶¹ was used to calculate the PCBs load reduced by each control measure implemented in our agency's jurisdictional area and the calculation results (i.e., the estimated PCBs load reduced by each control measure);
- Supporting data and information necessary to substantiate the load reduction estimates; and
- For Executive Officer approval, any refinements, if necessary, to the measurement and estimation methodologies to assess PCBs load reductions in the subsequent permit.

C.12.c ► Plan and Implement Green Infrastructure to Reduce PCBs Loads

See the SMCWPPP FY 2017-18 Annual Report for information on the quantitative relationship between green infrastructure implementation and PCBs load reductions, including all data used and a full description of models and model inputs relied on to establish this relationship.

C.12.e ► Evaluate PCBs Presence in Caulks/Sealants Used in Storm Drain or Roadway Infrastructure in Public Rights-of-Way

A summary of countywide and regional accomplishments for this sub-provision is included in the SMCWPPP FY 2017-18 Annual Report.

⁶¹BASMAA 2017. Interim Accounting Methodology for TMDL Loads Reduced, Version 1.0. Prepared for BASMAA by Geosyntec Consultants and EOA, Inc., September 19, 2016.

C.12.f ▶ Manage PCB-Containing Materials and Wastes During Building Demolition Activities So That PCBs Do Not Enter Municipal Storm Drains

A summary of countywide and regional accomplishments for this sub-provision is included in the C.12 PCBs Controls section of the SMCWPPP FY 2017-18 Annual Report.

Does your agency plan to seek exemption from this requirement?

Yes

No

C.12.g. ▶ Fate and Transport Study of PCBs: Urban Runoff Impact on San Francisco Bay Margins

A summary of countywide and regional accomplishments for this sub-provision are included in the SMCWPPP FY 2017-18 Annual Report.

C.12.h ▶ Implement a Risk Reduction Program

A summary of countywide and regional accomplishments for this sub-provision are included in the SMCWPPP FY 2017-18 Annual Report.

Section 13 - Provision C.13 Copper Controls

C.13.a.iii.(3) ► Manage Waste Generated from Cleaning and Treating of Copper Architectural Features

Provide summaries of permitting and enforcement activities to manage waste generated from cleaning and treating of copper architectural features, including copper roofs, during construction and post-construction.

Summary:

During construction, municipal construction stormwater inspectors are responsible for identifying copper architectural features and if appropriate, BMPs are implemented. Any issues noted are documented and enforcement actions recorded in the Provision C.6 inspection records. Post-construction municipal illicit discharge inspectors are responsible for responding to, investigating and identifying illegal discharge of wash water from washing copper architectural features. Any enforcement actions or reported discharges are recorded in the Provision C.5 inspection records. The SMCWPPP "Requirements for Architectural Copper" Fact Sheet is made available to the public, construction inspectors and illicit discharge inspectors on the SMCWPPP website (www.flowstobay.org/files/newdevelopment/flyersfactsheets/ArchitecturalcopperBMPs.pdf). Inspectors are made aware of the concerns with copper architectural features at SMCWPPP Training Workshops and internal municipal trainings.

C.13.b.iii.(3) ► Manage Discharges from Pools, Spas, and Fountains that Contain Copper-Based Chemicals

Provide summaries of any enforcement activities related to copper-containing discharges from pools, spas, and fountains.

Summary:

Any necessary enforcement action is implemented through the City's enforcement response plan. Redwood City staff responds to any reported illicit discharges by first investigating the reported scene. Investigation can occur either by Public Works or Code enforcement staff. Reports of discharges can occur either through telephone or Redwood City's public engagement tool, "myRWC" by PublicStuff. myRWC is a free smartphone application (also available via web browser) whereby the public can report issues through their phone. This medium allows pictures with GPS to be attached and the submission by the resident is routed to the appropriate staff member based upon complaint or issue. Follow-up, including messages and contact information can also be input through this system. In addition, any complaints reported directly to Public Works staff are entered into the myRWC database to help track and respond to complaints.

Upon review of our Provision C.5 illicit discharge inspection data we found no enforcement activities related to copper-containing discharges from pools, spas, and fountains.

C.13.c.iii ► Industrial Sources Copper Reduction Results

Based upon inspection activities conducted under Provision C.4, highlight copper reduction results achieved among the facilities identified as potential users or sources of copper, facilities inspected, and BMPs addressed.

Summary:

There were no BMP deficiencies found at facilities that may be sources of copper during routine inspections this fiscal year.

Section 15 -Provision C.15 Exempted and Conditionally Exempted Discharges

C.15.b.vi.(2) ► Irrigation Water, Landscape Irrigation, and Lawn or Garden Watering

Provide implementation summaries of the required BMPs to promote measures that minimize runoff and pollutant loading from excess irrigation. Generally the categories are:

- Promote conservation programs
- Promote outreach for less toxic pest control and landscape management
- Promote use of drought tolerant and native vegetation
- Promote outreach messages to encourage appropriate watering/irrigation practices
- Implement Illicit Discharge Enforcement Response Plan for ongoing, large volume landscape irrigation runoff.

Summary:

The City has implemented or continued several different programs to help raise awareness and encourage water conservation during this fiscal year. One of the most significant water conservation programs for Redwood City is our Recycled Water Project. In early 2002, the City Council of Redwood City began planning the Redwood City Recycled Water Project, and the treatment facilities were completed in 2007. Since then, the City has continued to work with various Homeowner Associations and commercial customers to convert to Recycled Water. For FY 17/18 the recycled water system delivered 632 acre feet of water for irrigation, industrial, and commercial purposes, and 8 acre feet were used for landscape impoundment and other onsite uses at Silicon Valley Clean Water (SVCW).

With approval from the Water Board, the City continued offering recycled water for a third year to individuals for home irrigation use through a residential fill station. Highlights include:

- Recycled water is offered free of charge to residents for personal, non-business use. Limit of 300 gallons per visit.
- Residents must participate in a one-time, short safety training session prior to receiving recycled water.
- Residents must provide their own approved container to receive recycled water from city staff.

The program ran from August to November 2017. In the 3 months of the program, the fill station distributed 9,672 gallons of recycled water to residential participants.

Commercial customers also have the ability to obtain recycled water year-round from the City at the applicable rate. The commercial fill station distributed 248,336 gallons to commercial participants.

In addition to recycled water, Redwood City partners with BAWSCA to offer the Lawn Be Gone! Program. This program incentivizes customers (through a \$1.00 per sq. ft. rebate) to replace their lawn with water-efficient landscapes. Redwood City currently has two demonstration locations (the Public Works Native Plant garden and Fire Station #12) where residents can see what a typical drought-tolerant landscape looks like. The Native Plant demonstration garden, planted as part of the Water Resources Division's water-efficient landscape classes in partnership with the Parks Department, was featured on the Native Garden Societies 2018 Garden Tour. Redwood City also hosted 5 BAWSCA landscape classes and

instructional workshops in FY 17/18. The classes included the following topics: Converting spray irrigation to drip, Difficult Planting Areas, Gardening with Succulents, Sustainable Hardscape Design and Double Duty Plants.

The City offers free water audits, where a city employee visits a resident's home to:

1. Go over basic consumption information
2. Check for leaks
3. Check flow rates for fixtures

Either as a result of the water audit, or at the request of any resident, the City offers free water-saving fixtures such as shower heads and bath and kitchen aerators. Redwood City gave away over 400 conservation kits and low-flow fixtures to residents.

The City also has a toilet and high efficiency washer rebate program, whereby residents can get up to \$100 back, respectively, for switching, and a rain barrel rebate program through BAWSCA.

Redwood City's Water Resources Division has been a signatory to the California Urban Water Conservation Council (now CALWEP) since the early 1990's and has implemented all the BMPs aggressively since the early 2000s. One of the BMPs is public outreach, Redwood City has promoted water conservation information and programs through several venues including: The City's website, social media, announcements on the utility bill, hosting a booth at events, and email. Some of the highlights of the City's water conservation promotions include:

- Tabling by City Staff at various events to distribute giveaways and disseminate water pollution and conservation-related information.

Events occurred throughout the year and included:

- July 4th Parade
- Salsa Festival
- Seaport Centre Earth Day event
- Paragon Point Earth Day event
- "Touch a Truck" event
- Email messaging, tweets, and website updates to continuously provide updates and reminders regarding water pollution and conservation, and available classes, rebates, and incentives.

Redwood City offers a climate appropriate irrigation schedule for all of our customers, available on our website and all public city facilities. We calculate a water budget for single family residential and dedicated irrigation customer classes. The water budgets use real-time weather to determine if the plant material is irrigated appropriately. For single family residential customers the water budget is only informational. Our irrigation customers are billed based on their water budget. Irrigation accounts have been converted since 2009 to AMI meters that are able to provide hourly consumption. To support our customer water efficiency efforts, we developed a "My Water" website so that customers can login and compare their water budget to their water consumption. Additionally, customers can choose to register for notifications, such as leak notifications, over-budget alerts and bi-billing cycle water use reports. The website and water budget information are promoted through all of the means mentioned in section C.7, as well as when a new customer opens an account, and when a manual meter is changed to AMI a door hanger is left.

FY 2017-2018 Annual Report
Permittee Name: City of Redwood City

City of Redwood City



Attachment

Provision C.3 Reporting New Development and Redevelopment

1. C.3.e.v Special Projects Narrative Discussions

Narrative Discussion of LID Feasibility or Infeasibility

851 Main Street

1. Feasibility/Infeasibility of Onsite Infiltration, Evapotranspiration, and Harvesting/Use

The Countywide Program's C.3 Regulated Projects Checklist and Special Projects Worksheet were completed for the project. The results of this analysis showed that it was infeasible to treat the C.3.d amount of runoff with infiltration and/or harvesting and use.

2. Feasibility/Infeasibility of Onsite LID Treatment

The project site was reviewed with regard to the feasibility and infeasibility of onsite LID treatment. The results of this review showed that it was infeasible to treat 75 percent (75%) of the C.3.d amount of runoff with LID treatment. The findings of this review are presented below.

- a. On-site Drainage Conditions.** The site is proposed to be developed with a zero lot line building and a small at grade sidewalk. The site was divided into 2 drainage areas, with 75% (treatment area #1) flowing into the treatment vault and the remaining 25% (treatment area #2) flowing to the flow-through planters on the second story patio.
- b. Self-treating and Self-Retaining Areas and LID treatment Measures.** There are no self-treating or self-retaining areas onsite. The LID treatment measure is for the 25% non-LID exempt area. Flow-through planters will be provided on the second floor patio to treat 25% of the on-site drainage.
- c. Maximizing Flow to LID Features and Facilities.** 25% of the drainage from the surrounding roof areas will be designed to flow directly into the flow-through planters, which is the maximum area that can be routed to the flow-through planters based on C3 sizing criteria.
- d. Constraints to Providing On-site LID.**
 - i. Impervious paved areas:** The only onsite area not covered by roof, roof deck or building is the at-grade sidewalk. The at-grade sidewalk is not treated by the LID treatment measure because its elevation is below the LID treatment (sidewalk is 20 feet below the roof deck) and on the opposite side of the property. The sidewalk area is routed to the media filter in the below grade garage.
 - ii. Landscaped areas:** There are no landscaped areas available on the site other than the proposed flow-through planters on the second story patio.

3. Feasibility/Infeasibility of Off-site LID Treatment.

The possibility of providing off-site LID treatment was found to be infeasible for the following reasons:

- a.** No additional property within the same watershed is owned by the project proponent. LID treatment in the public right of way adjacent to the project is infeasible for the following reasons:
 - Inadequate size to accommodate biotreatment facilities that meet sizing requirements for the tributary area.
 - Conflict with subsurface utilities
 - Conflict with public sidewalks
- b.** There is no regional LID stormwater mitigation program available for in-lieu C.3 compliance.

C.2. NARRATIVE DISCUSSION OF LID FEASIBILITY OR INFEASIBILITY

C.2.a. 601 El Camino Real, Redwood City

1. Feasibility/Infeasibility of Onsite Infiltration

The onsite soils have been classified as Hydrologic Soil Group D by the project geotechnical engineer. Group D soils are defined as having a very slow infiltration rate (high runoff potential) when thoroughly wet. As a result infiltration of the C.3.d runoff has been deemed infeasible.

2. Feasibility/Infeasibility of Onsite LID Treatment

The project site was reviewed with regard to the feasibility and infeasibility of onsite LID treatment. The results of this review showed that it was infeasible to treat 100 percent (100%) of the C.3.d amount of runoff with LID treatment. The findings of this review are presented below.

- a. **On-site Drainage Conditions.** On-site drainage consists of rainwater collected on the building roofs, paths, and roadway and directed to the onsite storm drain system. The stormwater is then detained within onsite storm drain pipes and pumped into a bio-retention area in Hopkins Avenue. Due to the number of roof rainwater leaders, utilizing multiple individual treatment areas onsite was not feasible. As a result, runoff from the entire site is collected and then directed to treatment measures. There is not adequate space onsite for a single bio-retention area sized to treat 65% of the site runoff. As a result, a portion of Hopkins Avenue has been used for bio-retention. The remaining 35% of the site runoff flows through an onsite media filter vault before discharging into the City storm drain in Hopkins Avenue.
- b. **Self-treating and Self-Retaining Areas and LID Treatment Measures.** An offsite bio-retention area will be used to treat 65% of the site runoff. The onsite access road, building footprints, and shared open space cover the majority of the site area. As a result, it is not feasible to provide a bio-retention or flow-through planter area large enough to treat the entire site.
- c. **Maximizing Flow to LID Features and Facilities.** The proposed stormwater management strategy maximizes flow to the bio-retention area in Hopkins Avenue. Directing additional flow to bio-retention would require increasing the area of bio-retention in Hopkins Avenue, as well as increasing the amount of detention onsite. This has been determined to be infeasible, as discussed in section 3.
- d. **Constraints to Providing On-site LID.** See sections 2.a and 2.b above.

3. Feasibility/Infeasibility of Off-site LID Treatment. The possibility of providing off-site LID treatment for 100% of the site area was found to be infeasible for the following reasons.

- a. No additional property within the same watershed is owned by the project applicant. Increasing the size of the LID treatment area within the public right of way adjacent to the project is infeasible for the following reasons:

- Increasing the size of the bio-retention area within Hopkins Avenue creates grading issues, since the bottom of the bio-retention basin must be set at a flat elevation, while the adjacent roadway is sloped. This results in large vertical drops between the roadway and bio-retention area bottom.
 - Increasing the bio-retention area in Hopkins Avenue would require relocation of existing underground electrical and communications facilities.
 - Onsite detention would also need to be increased to provide adequate storage for stormwater before being conveyed to bio-retention. Due to the large number of utilities within the on-site access road and potential cover issues with large diameter storm pipes, increasing the amount of onsite detention is infeasible.
 - Increasing the bio-retention area in Hopkins Avenue would further reduce the number of parking stalls within Hopkins Avenue.
- b. There is no regional LID stormwater mitigation program available for in-lieu C.3 compliance.

Narrative Discussion of LID Feasibility or Infeasibility

353 Main Street

1. Feasibility/Infeasibility of Onsite Infiltration, Evapotranspiration, and Harvesting/Use

The Countywide Program's C.3 Regulated Projects Checklist and Special Projects Worksheet were completed for the project. The results of this analysis showed that it was infeasible to treat the C.3.d amount of runoff with infiltration and/or harvesting and use.

2. Feasibility/Infeasibility of Onsite LID Treatment

The project site was reviewed with regard to the feasibility and infeasibility of onsite LID treatment. The results of this review showed that it was infeasible to treat 100 percent (100%) of the C.3.d amount of runoff with LID treatment. The findings of this review are presented below.

a. On-site Drainage Conditions.

On-site drainage consists of rainwater collected on the building roof and podium level courtyard, an emergency vehicle access drive and a public access creek-side trail. These waters will be collected through a system of pipes and treated through a combination of LID measures and media filters prior to discharge to the City's storm drain system on Main Street.

b. Self-treating and Self-Retaining Areas and LID treatment Measures.

An existing creek-side slope will not be disturbed as part of the project and will function as a self-treating area. Small landscape areas adjacent to the emergency vehicle access drive will also function as self-treating or self-retaining areas. A portion of the building roof and podium level will be treated by a bioretention planter on the podium level. An additional portion of the building roof will be treated by two at-grade bioretention ponds.

c. Maximizing Flow to LID Features and Facilities.

See sections 2.a and 2.b above

d. Constraints to Providing On-site LID.

- i. **Impervious paved areas:** The portions of the site not covered by building contain required emergency vehicle access drives and/or required public access path.
- ii. **Landscaped areas:** Much of the available landscape area has already been dedicated to bioretention planters; the remainder is small pieces that are constrained by their proximity to underground utilities and therefore unsuitable for LID measures.

3. Feasibility/Infeasibility of Off-site LID Treatment.

The possibility of providing off-site LID treatment was found to be infeasible for the following reasons:

a. No additional property within the same watershed is owned by the project proponent.

LID treatment in the public right of way adjacent to the project is infeasible for the following reasons:

- Inadequate size to accommodate biotreatment facilities that meet sizing requirements for the tributary area.
- Conflict with subsurface utilities
- Conflict with public sidewalks

b. There is no regional LID stormwater mitigation program available for in-lieu C.3 compliance.

707 Bradford Street

Narrative Discussion of Low Impact Development Feasibility/Infeasibility

This report provides a narrative discussion of the feasibility or infeasibility of providing 100 percent low impact development (LID) treatment for **707 Bradford Street**, which has been identified as a potential Special Project, based on Special Project criteria provided in Provision C.3.e.ii of the Municipal Regional Stormwater Permit (MRP). This report is prepared in accordance with the requirement in MRP Provision C.3.e.vi. (2), to include in Special Projects reporting a narrative discussion of the feasibility or infeasibility of 100 percent LID treatment onsite or offsite.

1. Feasibility/Infeasibility of Onsite LID Treatment

The project site was reviewed with regard to the feasibility and infeasibility of onsite LID treatment. The results of this review showed that it was **infeasible** to treat **100%** of the C.3.d amount of runoff with LID treatment. The findings of this review are presented below.

a. On-site Drainage Conditions.

The proposed site will include a new mix-use building, a pedestrian trail, nursery play area and landscaped areas. The proposed development is divided into three drainage management areas.

- i. The first drainage management area consist of the nursery play area, landscaped areas and the pedestrian trail. The storm waters from the nursery play area and trail will drain southerly into inlets and will eventually be detained and treated through a media filter.
- ii. The second drainage management area is a small landscaped area with 70 square feet of impervious area located on the north east corner of the project. This area will be treated as a self-retaining area. A dry well will be installed as a treatment measure.
- iii. The third drainage management area consists of roof podium and a partial portion of the building roof. The rain waters will be collected and treated by a flow-through planter left of the proposed building.
- iv. The fourth drainage management area consists of the remaining portion of the building roof and the rain waters will be collected and treated through a media filter located under the parking garage
- v. The fifth drainage management area consists of the property frontage. The rain water from this area will be difficult to collect due to the site constraints and the existing grades.

b. Self-treating and Self-Retaining Areas and LID Treatment Measures. Drainage management area 2 and drainage management area 3 will have self-retaining area and LID treatment measures.

- i. Drainage management 2 is a self-retaining area that will have a dry well installed to capture rain waters. The captured rain waters will then percolate slowly into the existing ground.
- ii. Drainage management area 3 will be treated by flow-through planters. The podium and a part of the building roof will be graded in such a way that the rain waters will flow to the left side of the building and be

captured by the flow through planters.

- c. Maximizing Flow to LID Features and Facilities. See sections 2.a and 2.b.
- d. Constraints to Providing On-site LID. The drainage management areas that are proposed to drain to tree-box type high flow rate biofilters and/or vault- based high flow rate media filters include some areas that are not covered by buildings. There are two areas that are not covered by buildings. One area includes a nursery play area for the day care. The second area is a proposed 14 feet wide trail, 10-foot sidewalk with 2-foot decomposed granite shoulder that connects Bradford Street and Main Street. In these areas, conditions and technical constraints are present that preclude the use of LID features and facilities, as described below.
 - i. Impervious paved areas: The existing project site is approximately 40,360 SF, which does not include the Creek. As part of the project, we will be proposing a mixed use building and a nursery play area that totals approximately 31,000 SF. The proposed foot print of the building and play area are requirements of the RFP for the City. In addition, the project is also bordered by the Redwood Creek to the east of the project. As a result, the project site has too many site constraints to provide adequate space for LID measures.

ii. Landscaped areas:

- Inadequate size to accommodate biotreatment facilities that meet sizing requirements for the tributary area. See 2.i above.
- Proximity to an unstable bank or slope. See 2i above.

2. Feasibility/Infeasibility of Off-Site LID Treatment. The possibility of providing off-site LID treatment was found to be infeasible for the following reasons.

i. No additional property within the same watershed is owned by the project proponent. LID treatment in the right of way adjacent to the project is infeasible for the following reasons:

- a. Inadequate size to accommodate biotreatment facilities that meet sizing requirements for the tributary area.
- b. Conflict with public sidewalk.

ii. There is no regional LID stormwater mitigation program available for in-lieu C.3 compliance.

610 Walnut Street, Redwood City
Narrative Discussion of Low Impact Development Feasibility/Infeasibility

This report provides a narrative discussion of the feasibility or infeasibility of providing 100 percent low impact development (LID) treatment for 610 Walnut Street, which has been identified as a potential Special Project, based on Special Project criteria provided in Provision C.3.e.ii of the Municipal Regional Stormwater Permit (MRP.) This report is prepared in accordance with the requirement in MRP Provision C.3.e.vi.(2), to include in Special Projects reporting a narrative discussion of the feasibility or infeasibility of 100 percent LID treatment onsite or offsite.

1.) Feasibility/Infeasibility of Onsite LID Treatment

The project site was reviewed with regard to the feasibility and infeasibility of onsite LID treatment. The results of this review showed that it was feasible to treat 0% of the C.3.d. amount of runoff with LID treatment. The findings of this review are presented below.

a.) On-site Drainage Conditions.

The site will consist of one large drainage management area (DMA) consisting of the building roofing. Roofing will be graded such that all stormwater drainage will flow towards and into downspouts. This DMA will connect to a single non-LID treatment media filter – storm water measure, located within the building footprint. After mechanical treatment, storm water will flow directly into the existing municipal storm water system.

b.) Self-treating and Self-Retaining Areas and LID Treatment Measures.

No self-treating areas, self-retaining areas, or LID treatment measures will be implemented per building footprint infeasibility.

c.) Maximizing Flow to LID Features and Facilities.

No LID features will be provided.

d.) Constraints to Providing On-site LID.

This DMA is equivalent to the area within the property line and does not include areas outside of the building footprint. The entirety of the site's area consists of building footprint; therefore, inadequate size is available to accommodate biotreatment facilities to meet sizing requirements for the tributary area.

2.) Feasibility/Infeasibility of Off-Site LID Treatment.

This project scope includes off-site work; however, the project is exempt from LID treatment measure implementation due to an inability to provide treatment area.

FY 2017-2018 Annual Report
Permittee Name: City of Redwood City

City of Redwood City



Attachment

Provision C.4 Industrial and Commercial Site Controls

2. C.4.b.iii. Potential Facilities List

	Name	Street Number	Street Name	City	Frequency
1	BON APPETIT @ EA COMMONS CAFE	211	REDWOOD SHORES	REDWOOD CITY	2 YEAR
2	SUMMIT PREPARATORY CHARTER H S	890	BROADWAY	REDWOOD CITY	2 YEAR
3	WILLOW MARKET	37	WILLOW	REDWOOD CITY	2 YEAR
4	SIMS METAL MANAGEMENT	699	SEAPORT	REDWOOD CITY	ANNUAL
5	SANDPIPER SCHOOL	801	REDWOOD SHORES	REDWOOD CITY	2 YEAR
6	SPECIALTYS CAFE & BAKERY	1100	ISLAND	REDWOOD CITY	2 YEAR
7	MISTRAL RESTAURANT	370	BRIDGE	REDWOOD CITY	2 YEAR
8	PIZZA HUT #283335	600	WHIPPLE	REDWOOD CITY	2 YEAR
9	TAQUERIA EL GRULLENSE	1280	EL CAMINO REAL	REDWOOD CITY	2 YEAR
10	HACIENDA TAQUERIA	895	2ND	REDWOOD CITY	2 YEAR
11	AMERICAN LEGION #105 RWC POST	651	EL CAMINO REAL	REDWOOD CITY	2 YEAR
12	QUINTO SOL RESTAURANT	2201	BROADWAY	REDWOOD CITY	2 YEAR
13	CEMEX CONST. MATERIALS PAC LLC	775	SEAPORT	REDWOOD CITY	ANNUAL
14	CARGILL SALT	295	SEAPORT	REDWOOD CITY	ANNUAL
15	HARBOR READY MIX	123	SEAPORT	REDWOOD CITY	ANNUAL
16	ALPINE CONSTRUCTION	927	ARGUELLO	REDWOOD CITY	2 YEAR
17	PENINSULA INFINITI	385	CONVENTION	REDWOOD CITY	2 YEAR
18	SEA LINK CAFE	399	MARINE	REDWOOD CITY	2 YEAR
19	SQUEEZE INN	3710	FLORENCE	REDWOOD CITY	2 YEAR
20	CYCLE GEAR	1326	EL CAMINO REAL	REDWOOD CITY	2 YEAR
21	REDWOOD GENERAL TIRE SERVICE	1630	BROADWAY	REDWOOD CITY	2 YEAR
22	CEMEX	876	SEAPORT	REDWOOD CITY	ANNUAL
23	MA CATERING	1714	EL CAMINO REAL	REDWOOD CITY	2 YEAR
24	PT OF RC-USED OIL COLLECTION CTR	451	SEAPORT	REDWOOD CITY	2 YEAR
25	PT OF RC - Maintenance Warehouse	775	Seaport	Redwood City	2 YEAR
26	AutoZone #4026	901	EL CAMINO REAL	REDWOOD CITY	2 YEAR
27	HELENS ONE HOUR CLEANERS	1594	WOODSIDE	REDWOOD CITY	2 YEAR
28	Party City #1211 Redwood City	1289	VETERANS	REDWOOD CITY	2 YEAR
29	HOPKINS ACURA	1555	EL CAMINO REAL	REDWOOD CITY	2 YEAR
30	PRO CARE	1704	INDUSTRIAL	REDWOOD CITY	2 YEAR
31	PENTAIR THERMAL MANAGEMENT	2555	BAY	REDWOOD CITY	ANNUAL
32	Central Concrete Supply Co Plant - 08	635	SEAPORT	REDWOOD CITY	ANNUAL
33	CODEXIS, INC	501	CHESAPEAKE	REDWOOD CITY	2 YEAR
34	McDonalds #17109	709	Woodside	Redwood City	2 YEAR
35	TOYOTA 101	525	BAYSHORE	REDWOOD CITY	2 YEAR
36	THE PATIO CAFE	1	LAGOON	REDWOOD CITY	2 YEAR
37	PABCO GYPSUM	675	SEAPORT	REDWOOD CITY	ANNUAL
38	LEGACY AUTO REPAIR	105	EL CAMINO REAL	REDWOOD CITY	2 YEAR
39	Glenwood Pump Station	3628	Glenwood	Redwood City	2 YEAR
40	GORDON MANOR	1616	GORDON	REDWOOD CITY	2 YEAR
41	RECYCLED WATER PLANT	1402	RADIO	REDWOOD CITY	2 YEAR
42	Pen #2	1050	TWIN DOLPHIN	Redwood City	2 YEAR
43	BEVERAGES & MORE	1745	EL CAMINO REAL	REDWOOD CITY	2 YEAR
44	CROSSING 900	900	MIDDLEFIELD	REDWOOD CITY	2 YEAR
45	GRANITE ROCK CORP	355	BLOMQUIST	REDWOOD CITY	ANNUAL
46	GRANITE ROCK ASPHALT&ROAD OILS	365	BLOMQUIST	REDWOOD CITY	ANNUAL
47	Granite Rock Company	195	SEAPORT	REDWOOD CITY	ANNUAL
48	BAY LEAF CAFE & CATERING	1201	RADIO	REDWOOD CITY	2 YEAR

	Name	Street Number	Street Name	City	Frequency
49	AMICIS EAST COAST PIZZERIA	226	REDWOOD SHORES	REDWOOD CITY	2 YEAR
50	NORDIC MOTORS	65	WINSLOW	REDWOOD CITY	2 YEAR
51	BIOSTRIDE INC	1201	DOUGLAS	REDWOOD CITY	2 YEAR
52	CARLSEN SUBARU	480	VETERANS	REDWOOD CITY	2 YEAR
53	Carlsen Subaru	535	Whipple	Redwood City	2 YEAR
54	U S CHINESE FOOD	2490	EL CAMINO REAL	REDWOOD CITY	2 YEAR
55	COOKS COLLISION OF REDWOOD CITY	1104	MAIN	REDWOOD CITY	2 YEAR
56	1400 SEAPORT	1400-A	SEAPORT	REDWOOD CITY	2 YEAR
57	SYNTHEGO CORP	3696	HAVEN	REDWOOD CITY	2 YEAR
58	MAR Y TIERRA TAQUERIA	1475	BROADWAY	REDWOOD CITY	2 YEAR
59	STARBUCKS COFFEE CO 6585	995	MARSH MANOR	REDWOOD CITY	2 YEAR
60	Roosevelt Shell	2108	Roosevelt	Redwood City	2 YEAR
61	ARGUELLO CATERING CO SOUTH	1757	BAYSHORE	REDWOOD CITY	2 YEAR
62	CALIFORNIA HIGHWAY PATROL	355	CONVENTION	REDWOOD CITY	2 YEAR
63	NIKKOS MEXICAN GRILL	408	EL CAMINO REAL	REDWOOD CITY	2 YEAR
64	CHEVRON STATION #91374	990	Veterans	Redwood City	2 YEAR
65	CURRY WRAPPERS DELIGHT	312	ARGUELLO	REDWOOD CITY	2 YEAR
66	CHEF PEKING RESTAURANT	515	VETERANS	REDWOOD CITY	2 YEAR
67	WOODSIDE GASOLINE INC	710	WOODSIDE	REDWOOD CITY	2 YEAR
68	Gas and Shop	3139	Jefferson	Redwood City	2 YEAR
69	MI RANCHO	150	CHARTER	REDWOOD CITY	2 YEAR
70	ROYAL CLEANERS	902	WHIPPLE	REDWOOD CITY	2 YEAR
71	AT&T California - P3056	1121	Jefferson	Redwood City	2 YEAR
72	AT&T California - CA0336 (P39AR)	1200	Marsh	Redwood City	2 YEAR
73	AI LLC	1709	BAYSHORE	REDWOOD CITY	ANNUAL
74	ECLECDISH CATERING	1757	BAYSHORE	REDWOOD CITY	2 YEAR
75	CASA DE REDWOOD	1280	VETERANS	REDWOOD CITY	2 YEAR
76	BAGEL STREET CAFE	254	REDWOOD SHORES	REDWOOD CITY	2 YEAR
77	INTEGRATED DNA TECHNOLOGIES INC	200	CHESAPEAKE	REDWOOD CITY	2 YEAR
78	TOYOTA SCION SPECIALIST	61	WILLOW	REDWOOD CITY	2 YEAR
79	LAND ROVER (asia pacific motors)	440	CONVENTION	REDWOOD CITY	2 YEAR
80	AVENUE LIQUORS	2147	ROOSEVELT	REDWOOD CITY	2 YEAR
81	VERA CASH MARKET	400	VERA	REDWOOD CITY	2 YEAR
82	STARBUCKS COFFEE	1045	EL CAMINO REAL	REDWOOD CITY	2 YEAR
83	PREMIER AUTO COLLISON	1612	EL CAMINO REAL	REDWOOD CITY	2 YEAR
84	MAGUIRE CORRECTIONAL FACILITY	330	BRADFORD	REDWOOD CITY	2 YEAR
85	HALL OF JUSTICE	400	COUNTY CENTER	REDWOOD CITY	2 YEAR
86	SEWER LIFT STATION #22	977 (was 999,	REDWOOD SHORES	REDWOOD CITY	2 YEAR
87	EMERALD HILLS CAFE	3203	OAK KNOLL	REDWOOD CITY	2 YEAR
88	REDWOOD SHORES CLEANERS	370	BRIDGE	REDWOOD CITY	2 YEAR
89	SALLY BEAUTY SUPPLY	1351	Broadway	Redwood City	2 YEAR
90	PRECISION TUNE AUTO CARE	1304	EL CAMINO REAL	REDWOOD CITY	2 YEAR
91	BOARDWALK MOTORCAR GROUP	1	BAIR ISLAND	REDWOOD CITY	2 YEAR
92	SAN MATEO COUNTY MOTOR POOL	752	CHESTNUT	REDWOOD CITY	2 YEAR
93	GOURMET HAUS STAUDT	2615	BROADWAY	REDWOOD CITY	2 YEAR
94	NOAHS BAGELS	1067	EL CAMINO REAL	REDWOOD CITY	2 YEAR
95	REDWOOD CITY SCHOOL WAREHOUSE	501	JAMES	REDWOOD CITY	2 YEAR
96	MAIN ST MARKET	804	MAIN	REDWOOD CITY	2 YEAR

	Name	Street Number	Street Name	City	Frequency
97	HENRY FORD SCHOOL	2498	MASSACHUSETTS	REDWOOD CITY	2 YEAR
98	BK 2443	575	EL CAMINO REAL	REDWOOD CITY	2 YEAR
99	ROOSEVELT LIQUOR & GROCERY	1700	EL CAMINO REAL	REDWOOD CITY	2 YEAR
100	EL ZARAPE BAR-N-GRILL	1808	EL CAMINO REAL	REDWOOD CITY	2 YEAR
101	FIRE STATION #9	755	MARSHALL	REDWOOD CITY	2 YEAR
102	Ross Dress For Less #0005	150	Woodside	Redwood City	2 YEAR
103	YAT SING RESTAURANT	38	WOODSIDE PLAZA	REDWOOD CITY	2 YEAR
104	TACOS EL GRULLENSE E & E	999	EL CAMINO REAL	REDWOOD CITY	2 YEAR
105	MAX RESTAURANT	1001	EL CAMINO REAL	REDWOOD CITY	2 YEAR
106	MARTINS WEST	831	MAIN	REDWOOD CITY	2 YEAR
107	ERIKS DELI CAFE	400	WALNUT	REDWOOD CITY	2 YEAR
108	MCDONALD	185	CHESTNUT	REDWOOD CITY	2 YEAR
109	REDWOOD CITY POLICE DEPARTMENT			REDWOOD CITY	2 YEAR
110	LV MAR	2042	BROADWAY	REDWOOD CITY	2 YEAR
111	COMEBUY	2074	BROADWAY	REDWOOD CITY	2 YEAR
112	A-1 RENTAL CENTER	1125	ARGUELLO	REDWOOD CITY	2 YEAR
113	WINGSTOP RESTAURANT	1918	EL CAMINO REAL	REDWOOD CITY	2 YEAR
114	AUTO MASTER CARE	67	EL CAMINO REAL	REDWOOD CITY	2 YEAR
115	BULA BODY SHOP INC	417	D	REDWOOD CITY	2 YEAR
116	PORTAS AUTO BODY	3020	ROLISON	REDWOOD CITY	2 YEAR
117	FIVE POINTS TIRE	2115	EL CAMINO REAL	REDWOOD CITY	2 YEAR
118	FIRE STATION #20	680	REDWOOD SHORES	REDWOOD CITY	2 YEAR
119	ACELRX PHARMACEUTICALS INC	351	GALVESTON	REDWOOD CITY	2 YEAR
120	ACTION TOWING	1790	INDUSTRIAL	REDWOOD CITY	2 YEAR
121	Clean Harbors Environmental Services, Inc.	695	SEAPORT	Redwood City	ANNUAL
122	SEQUOIA HEALTH SERVICES	170	ALAMEDA DE LAS PULGAS	REDWOOD CITY	2 YEAR
123	BEN FRANKS RESTAURANT	491	EL CAMINO REAL	REDWOOD CITY	2 YEAR
124	STACKS RESTAURANT	314	EL CAMINO REAL	REDWOOD CITY	2 YEAR
125	MILAGROS RESTAURANT	1099	MIDDLEFIELD	REDWOOD CITY	2 YEAR
126	ABBVIE BIOTHERAPEUTICS INC	1500	SEAPORT	REDWOOD CITY	2 YEAR
127	PHO TRUONG LONG VIETNAMESE	756	WOODSIDE	REDWOOD CITY	2 YEAR
128	ACTION SIGN SYSTEMS, INC.	3580	HAVEN	REDWOOD CITY	2 YEAR
129	Area A	1000	TWIN DOLPHIN	Redwood City	2 YEAR
130	Dice Molecules, SV, LLC	220	Penobscot	Redwood City	2 YEAR
131	SEWER LIFT STATION #17	11	AVOCET	REDWOOD CITY	2 YEAR
132	LIFT STATION #25	1599	BRIDGE	REDWOOD CITY	2 YEAR
133	TALK OF BROADWAY	2096	BROADWAY	REDWOOD CITY	2 YEAR
134	SEWER LIFT STATION #10	747	DAVIT	REDWOOD CITY	2 YEAR
135	SEWER LIFT STATION #2	600	MARINE WORLD	REDWOOD CITY	2 YEAR
136	SEWER LIFT STATION #12	790	MARINE WORLD	REDWOOD CITY	2 YEAR
137	PACIFIC SHORES LIFT STATION #1	1150	SEAPORT	REDWOOD CITY	2 YEAR
138	SEWER LIFT STATION #19		SHEARWATER @ HAMPTON/SHOA	REDWOOD CITY	2 YEAR
139	SEWER LIFT STATION #3	512	TRIDENT	REDWOOD CITY	2 YEAR
140	PRONTO PIZZERIA & ROTISSERIE	2560	EL CAMINO REAL	REDWOOD CITY	2 YEAR
141	Honda Redwood City	601	EL CAMINO REAL	REDWOOD CITY	2 YEAR
142	GRIFFIN PAINTING, INC.	3580	HAVEN	REDWOOD CITY	2 YEAR
143	REDWOOD GRILL	356	WOODSIDE PLAZA	REDWOOD CITY	2 YEAR
144	ONCOMED PHARMACEUTICALS INC	800	CHESAPEAKE	REDWOOD CITY	2 YEAR

	Name	Street Number	Street Name	City	Frequency
145	ANDY'S BP	895	WOODSIDE	REDWOOD CITY	2 YEAR
146	JIFFY LUBE	640	WHIPPLE	REDWOOD CITY	2 YEAR
147	EL DORADO FORKLIFT CO	3582	HAVEN	REDWOOD CITY	2 YEAR
148	IHOP #684	491	VETERANS	REDWOOD CITY	2 YEAR
149	SUSHI PLUS	30	WOODSIDE PLAZA	REDWOOD CITY	2 YEAR
150	FIFTH AVE PUMP STATION	3011	BAYSHORE	REDWOOD CITY	2 YEAR
151	PETERSEN PRECISION	611	BROADWAY	REDWOOD CITY	ANNUAL
152	SEWER LIFT STATION #1	100	MARINE PARKWAY	REDWOOD CITY	2 YEAR
153	SEAPORT PUMP STATION #3	207	PENOBSCOT	REDWOOD CITY	2 YEAR
154	PARKS & RECREATION	1400	RADIO	REDWOOD CITY	2 YEAR
155	PACIFIC SHORES STORM PUMP STA	800	SEAPORT	REDWOOD CITY	2 YEAR
156	WEST COAST COLLISION	525	STANDISH	REDWOOD CITY	2 YEAR
157	C G & E AUTO BODY	545	STANDISH	REDWOOD CITY	2 YEAR
158	AVINGER	400	CHESAPEAKE	REDWOOD CITY	2 YEAR
159	B & D AUTOMOTIVE	1510	MAIN	REDWOOD CITY	2 YEAR
160	KNBR TRANSMITTER FACILITY	1410	RADIO	REDWOOD CITY	2 YEAR
161	ARMO BIOSCIENCES INC	575	CHESAPEAKE	REDWOOD CITY	2 YEAR
162	PULMONX CORPORATION	700	CHESAPEAKE	REDWOOD CITY	ANNUAL
163	TOWNE AUTO BODY	111	CEDAR	REDWOOD CITY	2 YEAR
164	KENNEDY & ALLEN INC	1026	EL CAMINO REAL	REDWOOD CITY	2 YEAR
165	TWELVE	250	CHESAPEAKE	REDWOOD CITY	2 YEAR
166	PENINSULA MERCEDES	650	BROADWAY	REDWOOD CITY	2 YEAR
167	ROCKY'S BODY SHOP	1175	SHASTA	REDWOOD CITY	2 YEAR
168	SPECIALIZED AUTO	582	WOODSIDE	REDWOOD CITY	2 YEAR
169	KRISTI MARIES	318	ARGUELLO	REDWOOD CITY	2 YEAR
170	TOGOS	242	REDWOOD SHORES	REDWOOD CITY	2 YEAR
171	FIRE STATION #11	1091	2ND	REDWOOD CITY	2 YEAR
172	RAYS AUTO REPAIR, INC.	2333	EL CAMINO REAL	REDWOOD CITY	2 YEAR
173	DAVITA REDWOOD CITY DIALYSIS	1000	MARSHALL	REDWOOD CITY	2 YEAR
174	CENTRUM LIFT STATION	184	ORACLE	REDWOOD CITY	2 YEAR
175	AHISUSHI AND HIBACHI	1784	BROADWAY	REDWOOD CITY	2 YEAR
176	CVS/PHARMACY #9329	1039	EL CAMINO REAL	REDWOOD CITY	2 YEAR
177	CANYON AUTO SERVICE	590	CANYON	REDWOOD CITY	2 YEAR
178	ALAN STEEL & SUPPLY CO	505	BAYSHORE	REDWOOD CITY	2 YEAR
179	TOWNE FORD SALES	1601	EL CAMINO REAL	REDWOOD CITY	2 YEAR
180	EDIBLE ARRANGEMENTS	1685	BROADWAY	REDWOOD CITY	2 YEAR
181	Illumina- RGH	800	SAGINAW	REDWOOD CITY	2 YEAR
182	PURPLETIE	500	HOWLAND	REDWOOD CITY	2 YEAR
183	HN LOCKWOOD INC	450	MAPLE	REDWOOD CITY	2 YEAR
184	SANCHOS TAQUERIA	3205	OAK KNOLL	REDWOOD CITY	2 YEAR
185	ORACLE AMERICA INC	301-501	ISLAND PARK	REDWOOD CITY	2 YEAR
186	FISHS WILD FISH GRILL & MORE	855	MIDDLEFIELD	REDWOOD CITY	2 YEAR
187	INCLINE THERAPEUTICS INC	900	SAGINAW	REDWOOD CITY	2 YEAR
188	SWIMMING POOL PERFECTIONS	629	BAIR ISLAND	REDWOOD CITY	2 YEAR
189	Sherwin-Williams #8516	696	BROADWAY	REDWOOD CITY	2 YEAR
190	SIGONAS FARMERS MARKET	2345	MIDDLEFIELD	REDWOOD CITY	2 YEAR
191	TACOS LOS GEMELOS	1630	EL CAMINO REAL	REDWOOD CITY	2 YEAR
192	CARPET MAINT SUPPLY INC	1475	VETERANS	REDWOOD CITY	2 YEAR

	Name	Street Number	Street Name	City	Frequency
193	Impossible Foods, Inc.	525	CHESAPEAKE	REDWOOD CITY	ANNUAL
194	BIG O TIRES	2310	EL CAMINO REAL	REDWOOD CITY	2 YEAR
195	MARINE SCIENCE INSTITUTE	500	DISCOVERY	REDWOOD CITY	2 YEAR
196	THE GRILL HOUSE	246	REDWOOD SHORES	REDWOOD CITY	2 YEAR
197	PICENOS COMPLETE AUTO WORKS	1175	SHASTA	REDWOOD CITY	2 YEAR
198	Verizon Wireless Edgewood Alameda	170	ALAMEDA DE LAS PULGAS	Redwood City	2 YEAR
199	SUISHA HOUSE	2053	BROADWAY	REDWOOD CITY	2 YEAR
200	Verizon Wireless Hwy 101 Whipple	350	Convention	Redwood City	2 YEAR
201	HAPPY DONUTS	1330	EL CAMINO REAL	REDWOOD CITY	2 YEAR
202	Verizon Wireless Redwood City Downtown	1451	EL CAMINO REAL	Redwood City	2 YEAR
203	Verizon Wireless Alameda Jefferson	2325	Euclid	Redwood City	2 YEAR
204	Cooks Collision of San Carlos	1800	INDUSTRIAL	REDWOOD CITY	2 YEAR
205	PRECISION AUTO REPAIR CENTER	110	PINE	REDWOOD CITY	2 YEAR
206	MARINA STATION	473	SEAPORT	REDWOOD CITY	2 YEAR
207	Verizon Wireless Woodside Road	1835	VALOTA	Redwood City	2 YEAR
208	NARANJOS TAQUERIA	2647	BROADWAY	REDWOOD CITY	2 YEAR
209	PENINSULA BUILDING MATERIALS	109	SEAPORT	REDWOOD CITY	2 YEAR
210	A AUTO SERVICE	540	EL CAMINO REAL	REDWOOD CITY	2 YEAR
211	ROCKETSHIP REDWOOD CITY COMMUNITY	2521	GOODWIN	REDWOOD CITY	2 YEAR
212	KENNEDY SCHOOL	2521	GOODWIN	REDWOOD CITY	2 YEAR
213	ALANAS CAFE	1020	MAIN	REDWOOD CITY	2 YEAR
214	ORCHARD SUPPLY HARDWARE	2110	MIDDLEFIELD	REDWOOD CITY	2 YEAR
215	Esbro	775	Seaport	Redwood City	2 YEAR
216	MAYS VIETNAMESE RESTAURANT	2088	BROADWAY	REDWOOD CITY	2 YEAR
217	QUONG LEE PENINSULA CLEANING SVCS	1681	BROADWAY	REDWOOD CITY	2 YEAR
218	GREEN LEAF ASIAN BISTRO	865	MIDDLEFIELD	REDWOOD CITY	2 YEAR
219	Univar USA Inc.	525	Seaport	Redwood City	ANNUAL
220	FOOD STOP MARKETS	916	WHIPPLE	REDWOOD CITY	2 YEAR
221	7 ELEVEN STORE #2366-22434E	400	EL CAMINO REAL	REDWOOD CITY	2 YEAR
222	Redwood City School District(Maintenance and	601	JAMES	REDWOOD CITY	2 YEAR
223	Airgas USA, LLC	1826	INDUSTRIAL	Redwood City	2 YEAR
224	SAKURA	2198	BROADWAY	REDWOOD CITY	2 YEAR
225	HIGUMA JAPANESE RESTAURANT	540	EL CAMINO REAL	REDWOOD CITY	2 YEAR
226	AB SCIEX LLC	1201	RADIO	REDWOOD CITY	2 YEAR
227	VINO SANTO BISTRO	2030	BROADWAY	REDWOOD CITY	2 YEAR
228	Kaiser Permanente Hospital	1100	Veterans	Redwood City	2 YEAR
229	WOODSIDE AUTO & TIRE INC	333	WOODSIDE	REDWOOD CITY	2 YEAR
230	DONUT KING	3123	JEFFERSON	REDWOOD CITY	2 YEAR
231	KAISER PERMANENTE HOSPITAL - CUP	670	MARSHALL	REDWOOD CITY	2 YEAR
232	KAISER PERMANENTE HOSPITAL	1150	VETERANS	REDWOOD CITY	2 YEAR
233	Arana Therapeutics, Inc.	610	Galveston	Redwood City	2 YEAR
234	U-Haul Moving & Storage of Redwood City	2200	EL CAMINO REAL	Redwood City	2 YEAR
235	7-ELEVEN, STORE 2366-15896E	1700	BROADWAY	REDWOOD CITY	2 YEAR
236	JAMBA JUICE #69	1007	EL CAMINO REAL	REDWOOD CITY	2 YEAR
237	HERON THERAPEUTICS, INC	123	SAGINAW	REDWOOD CITY	2 YEAR
238	BLUEFIN PARTY SUSHI	2327	BROADWAY	REDWOOD CITY	2 YEAR
239	ESTAMPAS PERUANAS	715	EL CAMINO REAL	REDWOOD CITY	2 YEAR
240	CERRONE EUROPEAN	2306	EL CAMINO REAL	REDWOOD CITY	2 YEAR

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241	PAPA JOHNS PIZZA	1201	EL CAMINO REAL	REDWOOD CITY	2 YEAR
242	SEAPORT REFINING & LLC	679	SEAPORT	REDWOOD CITY	ANNUAL
243	MARGARITAS	2098	BROADWAY	REDWOOD CITY	2 YEAR
244	Verizon Wireless San Carlos Airport	201	REDWOOD SHORES	SAN CARLOS	2 YEAR
245	Verizon Wireless Hwy 101 Seaport	10	Seaport	Redwood City	2 YEAR
246	Verizon Wireless Redwood Shores	10	TWIN DOLPHIN	Redwood City	2 YEAR
247	SPEEDEE OIL CHANGE	550	VETERANS	REDWOOD CITY	2 YEAR
248	MERCADITO LATINO	1726	EL CAMINO REAL	REDWOOD CITY	2 YEAR
249	THAI HOUSE	1742	EL CAMINO REAL	REDWOOD CITY	2 YEAR
250	BANGKOK BAY THAI CUISINE	825	EL CAMINO REAL	REDWOOD CITY	2 YEAR
251	GENERAL NUTRITION CTR #6113	2539	EL CAMINO REAL	REDWOOD CITY	2 YEAR
252	CHUCK E CHEESE	2541	EL CAMINO REAL	REDWOOD CITY	2 YEAR
253	BOXER INDUSTRIES INC	151	HINMAN	REDWOOD CITY	2 YEAR
254	PHO DONG RESTAURANT	2610	BROADWAY	REDWOOD CITY	2 YEAR
255	ZADNA	2653	BROADWAY	REDWOOD CITY	2 YEAR
256	CARLSEN MOTOR CARS, INC.	3636	HAVEN	REDWOOD CITY	2 YEAR
257	FARM HILL	1531	MAIN	REDWOOD CITY	2 YEAR
258	MAPLE STREET CORRECTIONAL CENTER	1300	MAPLE	REDWOOD CITY	2 YEAR
259	VALERO	795	5TH	REDWOOD CITY	2 YEAR
260	REDWOOD TOUCHLESS CAR WASH	215	EL CAMINO REAL	REDWOOD CITY	2 YEAR
261	Safeway 0747	850	Woodside	Redwood City	2 YEAR
262	I DUMPLING LLC	2660	BROADWAY	REDWOOD CITY	2 YEAR
263	FOLEY BROTHERS CUSTOM WORKS	32	WILLOW	REDWOOD CITY	2 YEAR
264	Oil Changer #202	2762	EL CAMINO REAL	Redwood City	2 YEAR
265	ABC COMPANIES	3508	HAVEN	REDWOOD CITY	2 YEAR
266	BAYSIDE EQUIPMENT CO	3562	HAVEN	REDWOOD CITY	2 YEAR
267	GOOGLE, INC.	1300	SEAPORT	REDWOOD CITY	2 YEAR
268	GOOGLE, INC.	1600	SEAPORT	REDWOOD CITY	2 YEAR
269	GOOGLE, INC.	1700	SEAPORT	REDWOOD CITY	2 YEAR
270	GOOGLE, INC.	1900	SEAPORT	REDWOOD CITY	2 YEAR
271	RENDEVOUS CAFE	350	TWIN DOLPHIN	REDWOOD CITY	2 YEAR
272	OH BABY SUSHI	2139	ROOSEVELT	REDWOOD CITY	2 YEAR
273	FREDS GARAGE INC	416	D	REDWOOD CITY	2 YEAR
274	COST PLUS INC #284	890	JEFFERSON	REDWOOD CITY	2 YEAR
275	TRANS AUTO REPAIR	610	BROADWAY	REDWOOD CITY	2 YEAR
276	AT&T MOBILITY - REDWOOD CITY	575	CALIFORNIA	Redwood City	2 YEAR
277	AT&T California - P3081	72	Wilson	Redwood City	2 YEAR
278	PENINSULA LIQUORS	717	EL CAMINO REAL	REDWOOD CITY	2 YEAR
279	Whole Foods Market - Redwood City	1250	JEFFERSON	Redwood City	2 YEAR
280	CALIFORNIA AUTO DETAILERS	113	BEECH	REDWOOD CITY	2 YEAR
281	ROBERTS & BRUNE	939	BROADWAY	REDWOOD CITY	2 YEAR
282	Kohl's Department Stores - Store #1389	250	Walnut	Redwood City	2 YEAR
283	ZAZZLE, INC	1800	SEAPORT	REDWOOD CITY	2 YEAR
284	ELECTRONIC ARTS INC	209	REDWOOD SHORE PARKWAY	REDWOOD CITY	2 YEAR
285	ELECTRONIC ARTS INC	250	SHORELINE	REDWOOD CITY	2 YEAR
286	JAMBA JUICE #45	220	REDWOOD SHORES	REDWOOD CITY	2 YEAR
287	UNA MAS MEXICAN GRILL	224	REDWOOD SHORES	REDWOOD CITY	2 YEAR
288	PG&E: SHREDDER SUBSTATION	775	Hinman	REDWOOD CITY	2 YEAR

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289	PG&E: LAS PULGAS SUBSTATION		KANSAS	Redwood City	2 YEAR
290	RITE AID #5893	2150	ROOSEVELT	REDWOOD CITY	2 YEAR
291	PG&E: REDWOOD CITY SUBSTATION	10	Seaport	REDWOOD CITY	2 YEAR
292	PG&E: BAIR SUBSTATION	255	SEAPORT	Redwood City	2 YEAR
293	WOODSIDE MANOR LIQUORS	524	WOODSIDE	REDWOOD CITY	2 YEAR
294	JACK IN THE BOX #469	986	WOODSIDE	REDWOOD CITY	2 YEAR
295	ORACLE USA INC	10	TWIN DOLPHIN	REDWOOD CITY	2 YEAR
296	C/O LICENSING DEPT	340	WOODSIDE PLAZA	REDWOOD CITY	2 YEAR
297	BENZ AUTO BODY	1850	INDUSTRIAL	REDWOOD CITY	2 YEAR
298	Century Redwood Downtown 20	825	Middlefield	Redwood City	2 YEAR
299	GUNDERSON DETTMER, LLP	1200	SEAPORT	REDWOOD CITY	2 YEAR
300	FIVE GUYS BURGER	801	MIDDLEFIELD	REDWOOD CITY	2 YEAR
301	WAREHOUSE DEMO SERVICES # 1042	2300	MIDDLEFIELD	REDWOOD CITY	2 YEAR
302	STANFORD MEDICINE OUTPATIENT CTR	420-450	BROADWAY	REDWOOD CITY	2 YEAR
303	CARBON 3D	1089	MILLS	REDWOOD CITY	2 YEAR
304	CAL-STEAM	604	PRICE	REDWOOD CITY	2 YEAR
305	SVCW Redwood City Pump Station	1581	MAPLE	REDWOOD CITY	2 YEAR
306	Verizon Business: RDWDCA		EL CAMINO N OF WHIPPLE	REDWOOD CITY	2 YEAR
307	SUHSD/Transportation (Redwood City, CA)	1090	Mills	Redwood City	2 YEAR
308	HUDSON PACIFIC PROPERTIES	333	TWIN DOLPHIN	REDWOOD CITY	2 YEAR
309	HOME SKILLET	820	VETERANS	REDWOOD CITY	2 YEAR
310	NICK THE GREEK	2034	BROADWAY	REDWOOD CITY	2 YEAR
311	RWC UNDERGROUND PUB	2650	BROADWAY	REDWOOD CITY	2 YEAR
312	BK 6292	2102	MIDDLEFIELD	REDWOOD CITY	2 YEAR
313	LA ESTRELLITA	2205	MIDDLEFIELD	REDWOOD CITY	2 YEAR
314	SEQUOIA HIGH SCHOOL	1201	BREWSTER	REDWOOD CITY	2 YEAR
315	LITTLE MADFISH	1021	EL CAMINO REAL	REDWOOD CITY	2 YEAR
316	The Habit Burger Grill	1111	EL CAMINO REAL	Redwood City	2 YEAR
317	PM SOLUTIONS DBA MORE AUTOMOTIVE	303	CONVENTION	REDWOOD CITY	2 YEAR
318	EL CAMINO MARTCO	602	EL CAMINO REAL	REDWOOD CITY	2 YEAR
319	PEARL THERAPEUTICS INC	200	CARDINAL	REDWOOD CITY	2 YEAR
320	R & D GAS AND FOOD MART	2215	EL CAMINO REAL	REDWOOD CITY	2 YEAR
321	BON APPETIT 300 CAFE	300	ORACLE	REDWOOD SHORES	2 YEAR
322	BON APPETIT 350 CAFE	350	ORACLE	REDWOOD CITY	2 YEAR
323	GUCKENHEIMER SERVICES LLC AT PACIFIC	1600	SEAPORT	REDWOOD CITY	2 YEAR
324	Jack in the Box #0525	1205	Broadway	Redwood City	2 YEAR
325	LA VIGA RESTURANT	1772	BROADWAY	REDWOOD CITY	2 YEAR
326	GROCERY OUTLET INC	1833	BROADWAY	REDWOOD CITY	2 YEAR
327	EMERALD CITY LIQUORS	3025	JEFFERSON	REDWOOD CITY	2 YEAR
328	SUMMIT COFFEE	2137	ROOSEVELT	REDWOOD CITY	2 YEAR
329	TAFT SCHOOL	903	10TH	REDWOOD CITY	2 YEAR
330	NIKKOS MEXIAN GRILL	314-316	ARGUELLO	REDWOOD CITY	2 YEAR
331	OHANA EXPRESS	640	WOODSIDE	REDWOOD CITY	2 YEAR
332	ROCK N WRAPS	2053	BROADWAY	REDWOOD CITY	2 YEAR
333	COUNTY OFFICE BLDG.#1	455	COUNTY CENTER	REDWOOD CITY	2 YEAR
334	COUNTY OFFICE BLDG #2	555	COUNTY CENTER	REDWOOD CITY	2 YEAR
335	J & G LIQUORS	1402	MAIN	REDWOOD CITY	2 YEAR
336	Veterans Shell #148	690	VETERANS	REDWOOD CITY	2 YEAR

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337	STARBUCKS COFFEE	400	WALNUT	REDWOOD CITY	2 YEAR
338	Woodside Manor Shell #176	582	WOODSIDE	REDWOOD CITY	2 YEAR
339	WOODSIDE CLEANERS	317	WOODSIDE	REDWOOD CITY	2 YEAR
340	PENINSULA COVENANT COMMUNITY CENTER	3623	JEFFERSON	REDWOOD CITY	2 YEAR
341	BAY CLUB	200	Redwood Shores	Redwood City	2 YEAR
342	REDWOOD BISTRO	711	EL CAMINO REAL	REDWOOD CITY	2 YEAR
343	THAIBODIA	910	WOODSIDE	REDWOOD CITY	2 YEAR
344	FIFTH QUARTER	976	WOODSIDE	REDWOOD CITY	2 YEAR
345	GO FISH POKE BAR 3	823	HAMILTON	REDWOOD CITY	2 YEAR
346	THE STRIPED PIG	917	MAIN	REDWOOD CITY	2 YEAR
347	GP ENTERPRISES	3014	ROLISON	REDWOOD CITY	2 YEAR
348	Propel Fuels, Inc. (202024)	503	WHIPPLE	Redwood City	2 YEAR
349	LITTLE CESARS	2193	ROOSEVELT	REDWOOD CITY	2 YEAR
350	QUALITY COACHWORKS LTD	411	WOODSIDE	REDWOOD CITY	2 YEAR
351	RELYPSA INC	100	CARDINAL	REDWOOD CITY	2 YEAR
352	EL CAMINO AUTO BODY	51	CHARTER	REDWOOD CITY	2 YEAR
353	PACIFIC INN	2610	EL CAMINO REAL	REDWOOD CITY	2 YEAR
354	TEATIME	1003	EL CAMINO REAL	REDWOOD CITY	2 YEAR
355	CHUCKS DONUTS	801	WOODSIDE	REDWOOD CITY	2 YEAR
356	SUHSD WAREHOUSE	350	JAMES	REDWOOD CITY	2 YEAR
357	ROUND TABLE PIZZA	128	WOODSIDE PLAZA	REDWOOD CITY	2 YEAR
358	TIMBER AND SALT	881	MIDDLEFIELD	REDWOOD CITY	2 YEAR
359	ARCO 00306	1700	MIDDLEFIELD	REDWOOD CITY	2 YEAR
360	STARBUCKS COFFEE	1900	EL CAMINO REAL	REDWOOD CITY	2 YEAR
361	HARRYS HOFBRAU	1909	EL CAMINO REAL	REDWOOD CITY	2 YEAR
362	SPEEDERIA PIZZERIA	3201 A	OAK KNOLL	REDWOOD CITY	2 YEAR
363	THE BLACKSMITH	2048	BROADWAY	REDWOOD CITY	2 YEAR
364	Safeway 0305	1071	EL CAMINO REAL	Redwood City	2 YEAR
365	FERRARI MASERATI OF SILICON VALLEY	2750	EL CAMINO REAL	REDWOOD CITY	2 YEAR
366	VITALITY BOWLS	835	MIDDLEFIELD	REDWOOD CITY	2 YEAR
367	BLISS COFFEE	2400	BROADWAY	REDWOOD CITY	2 YEAR
368	STARBUCKS COFFEE	801	HAMILTON	REDWOOD CITY	2 YEAR
369	CYCLISMO CAFE	871	MIDDLEFIELD	REDWOOD CITY	2 YEAR
370	Dollar Tree #05544	312	Walnut	Redwood City	2 YEAR
371	KEMURI JAPANESE BARU	2616	BROADWAY	REDWOOD CITY	2 YEAR
372	KAIGAN SUSHI	3215	OAK KNOLL	REDWOOD CITY	2 YEAR
373	BONFARE #41	3215	OAK KNOLL	REDWOOD CITY	2 YEAR
374	CANYON GAS & PROPANE	590	CANYON	REDWOOD CITY	2 YEAR
375	PHILZ COFFEE	2116	BROADWAY	REDWOOD CITY	2 YEAR
376	TITO'S AUTO REPAIR	2121	EL CAMINO REAL	REDWOOD CITY	2 YEAR
377	ORIGINS JUICERY	2070	BROADWAY	REDWOOD CITY	2 YEAR
378	FAST AND EASY	2512	EL CAMINO REAL	REDWOOD CITY	2 YEAR
379	MARSHALLS	2545	EL CAMINO REAL	REDWOOD CITY	2 YEAR
380	THE VITAMIN SHOPPE	1200	EL CAMINO REAL	REDWOOD CITY	2 YEAR
381	Smart & Final # 410	1185	Broadway	Redwood City	2 YEAR
382	CLUB CALIENTE	1776	BROADWAY	REDWOOD CITY	2 YEAR
383	STUTTGART MOTORS	2315	EL CAMINO REAL	REDWOOD CITY	2 YEAR
384	BON APPETIT 200	200	ORACLE	REDWOOD CITY	2 YEAR

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385	BON APPETIT 400 CAFE	400	ORACLE	REDWOOD CITY	2 YEAR
386	ORACLE CORP	100-600	ORACLE	REDWOOD CITY	2 YEAR
387	BRAVO TAQUERIA	980	WOODSIDE	REDWOOD CITY	2 YEAR
388	STEVES CAFE & CATERING	303	TWIN DOLPHIN	REDWOOD CITY	2 YEAR
389	MARRIOTT COURTYARD REDWOOD CITY	600	BAIR ISLAND	REDWOOD CITY	2 YEAR
390	MANDALOUN RESTAURANT	2021	BROADWAY	REDWOOD CITY	2 YEAR
391	BRISTOL- MYERS SQUIBB	740	BAY	REDWOOD CITY	ANNUAL
392	AT&T California - P3600	2001	Bayshore	Redwood City	2 YEAR
393	YOKOHAMA JAPANESE BISTRO	2050	BROADWAY	REDWOOD CITY	2 YEAR
394	BROADWAY MASALA LLC	2397	BROADWAY	REDWOOD CITY	2 YEAR
395	LOVEJOYS TEA ROOM REDWOOD CITY	901	MAIN	REDWOOD CITY	2 YEAR
396	CRU	900	MIDDLEFIELD	REDWOOD CITY	2 YEAR
397	FROYOLA	2206	BROADWAY	REDWOOD CITY	2 YEAR
398	ACHELOIS ONCOLOGY INC	3698	HAVEN	REDWOOD CITY	2 YEAR
399	REDWOOD ROLLER RINK	1303	MAIN	REDWOOD CITY	2 YEAR
400	STARBUCKS COFFEE	490	EL CAMINO REAL	REDWOOD CITY	2 YEAR
401	IN-N-OUT BURGER #246	949	Veterans	Redwood City	2 YEAR
402	TOGOS AND BASKIN ROBBINS	1501	EL CAMINO REAL	REDWOOD CITY	2 YEAR
403	MARDI GRAS LOUNGE	1628	EL CAMINO REAL	REDWOOD CITY	2 YEAR
404	HOLIDAY INN EXPRESS	2834	EL CAMINO REAL	REDWOOD CITY	2 YEAR
405	Revolution Medicine	700	Saginaw	Redwood City	2 YEAR
406	BOBBY D'S SPORTS BAR & COCKTAIL LOUNGE	700	WINSLOW	REDWOOD CITY	2 YEAR
407	VRI	500	ARGUELLO	REDWOOD CITY	2 YEAR
408	840 WINE BAR & COCKTAIL LOUNGE	840	BREWSTER	REDWOOD CITY	2 YEAR
409	AT&T MOBILITY - BELMONT (USID13252)	255	Shoreline	Redwood City	2 YEAR
410	CITY PUB & CAFE	2620	BROADWAY	REDWOOD CITY	2 YEAR
411	REDWOOD RENTAL & REPAIR	2336	EL CAMINO REAL	REDWOOD CITY	2 YEAR
412	TACO BELL #30791	1103	VETERANS	REDWOOD CITY	2 YEAR
413	MCDONALDS RESTAURANT	536	WHIPPLE	REDWOOD CITY	2 YEAR
414	UBIQUITOUS ENERGY	3696	HAVEN	REDWOOD CITY	2 YEAR
415	ENVIRONMENTAL HEALTH STORAGE	310	PINE	REDWOOD CITY	2 YEAR
416	SEVEN ELEVEN STORE 2366-25411C	460	WOODSIDE	REDWOOD CITY	2 YEAR
417	WHIPPLE CHEVRON	585	WHIPPLE	REDWOOD CITY	2 YEAR
418	THE OLD SPAGHETTI FACTORY	2107	BROADWAY	REDWOOD CITY	2 YEAR
419	FOX THEATER	2221	BROADWAY	REDWOOD CITY	2 YEAR
420	OLD TOWN SUSHI	2432	BROADWAY	REDWOOD CITY	2 YEAR
421	CROUCHING TIGER BAR	2640	BROADWAY	REDWOOD CITY	2 YEAR
422	LA CASITA CHILANGA #2	761	EL CAMINO REAL	REDWOOD CITY	2 YEAR
423	SUBWAY SANDWICHES & SALADS #2622	1926	EL CAMINO REAL	REDWOOD CITY	2 YEAR
424	ALYS ON MAIN	911	MAIN	REDWOOD CITY	2 YEAR
425	Chipotle Mexican Grill #430	861	Middlefield	Redwood City	2 YEAR
426	SILICON VALLEY CLEAN WATER	1400	Radio	Redwood City	2 YEAR
427	THE SPOT ASIAN KITCHEN	240	REDWOOD SHORES	REDWOOD CITY	2 YEAR
428	FALAFEL TAZAH INC	256	REDWOOD SHORES	REDWOOD CITY	2 YEAR
429	Nob Hill #628	270	REDWOOD SHORES	Redwood City	2 YEAR
430	CHAVEZ MEAT MARKET	775	ARGUELLO	REDWOOD CITY	2 YEAR
431	CHAVEZ SUPERMARKET	817	ARGUELLO	REDWOOD CITY	2 YEAR
432	Caltrans-Redwood City	2501	Bayshore	Redwood City	2 YEAR

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433	VERTEX MECHANICAL INC	730	BROADWAY	REDWOOD CITY	2 YEAR
434	CANYON INN	587	CANYON	REDWOOD CITY	2 YEAR
435	APATZINGAN #2	739	CHESTNUT	REDWOOD CITY	2 YEAR
436	STUDEBAKERS WEST	335	CONVENTION	REDWOOD CITY	2 YEAR
437	WENDYS OLD FASHIONED HAMBURGER	1852	EL CAMINO REAL	REDWOOD CITY	2 YEAR
438	DELUCCHIS MARKET	3640	FLORENCE	REDWOOD CITY	2 YEAR
439	EVA SWEETS	3716	FLORENCE	REDWOOD CITY	2 YEAR
440	THE DESSERT STUDIO	3716	FLORENCE	REDWOOD CITY	2 YEAR
441	GAMBREL AND CO	810	MAIN	REDWOOD CITY	2 YEAR
442	TACOS EL GRULLENSE #1	1243	MIDDLEFIELD	REDWOOD CITY	2 YEAR
443	BON APPETIT MGMT	10	TWIN DOLPHIN	REDWOOD CITY	2 YEAR
444	KEY MARKET	1063	UPTON	REDWOOD CITY	2 YEAR
445	TACOS EL GRULLENSE #3	795	5TH	REDWOOD CITY	2 YEAR
446	SUBWAY 48425	1395	BROADWAY	REDWOOD CITY	2 YEAR
447	SUBWAY	1051	EL CAMINO REAL	REDWOOD CITY	2 YEAR
448	CODEXIS, INC	400	PENOBSCOT	REDWOOD CITY	2 YEAR
449	SUBWAY	1105	VETERANS	REDWOOD CITY	2 YEAR
450	PIZZA AND PINTS	821	WINSLOW	REDWOOD CITY	2 YEAR
451	BROADWAY AUTO INC	1101	BROADWAY	REDWOOD CITY	2 YEAR
452	CHEF CHENS	820	VETERANS	REDWOOD CITY	2 YEAR
453	DINER JAPONICA	593	WOODSIDE	REDWOOD CITY	2 YEAR
454	TECHSHOP MID-PENINSULA	2415	BAY	REDWOOD CITY	2 YEAR
455	KARAKADE THAI CUISINE	593	WOODSIDE	REDWOOD CITY	2 YEAR
456	ARCO 00573	610	WOODSIDE	REDWOOD CITY	2 YEAR
457	Kentucky Fried Chicken	659	Woodside	Redwood City	2 YEAR
458	SEVEN ELEVEN STORE #14339	895	5TH	REDWOOD CITY	2 YEAR
459	ROUTE 66 ROADSIDE SERVICE	1207	SHASTA	REDWOOD CITY	2 YEAR
460	LA CASITA CHILANGA	795	5TH	REDWOOD CITY	2 YEAR
461	EL GRULLENSE E & E	2401	MIDDLEFIELD	REDWOOD CITY	2 YEAR
462	CVS/PHARMACY #9690	1301	BROADWAY	REDWOOD CITY	2 YEAR
463	REDWOOD 76	1603	BROADWAY	REDWOOD CITY	2 YEAR
464	JON 76	234	EL CAMINO REAL	REDWOOD CITY	2 YEAR
465	Wheel Works #240716	2411	EL CAMINO REAL	REDWOOD CITY	2 YEAR
466	APNICURE	900	CHESAPEAKE	REDWOOD CITY	5 YEAR
467	TRAGON CORP	350	BRIDGE	REDWOOD CITY	2 YEAR
468	GENERAL NUTRITION CENTER # 1613	260	REDWOOD SHORES	REDWOOD CITY	2 YEAR
469	STARBUCKS COFFEE	264	REDWOOD SHORES	REDWOOD CITY	2 YEAR
470	FLYERS #270	699	EL CAMINO REAL	REDWOOD CITY	2 YEAR
471	AUTO PRIDE CAR WASH	909	WOODSIDE	REDWOOD CITY	2 YEAR
472	Firestone Complete Auto Care #012858	1458	EL CAMINO REAL	REDWOOD CITY	2 YEAR
473	EXPERT WOODWORKING	924	BROADWAY	REDWOOD CITY	2 YEAR
474	MUNICIPAL SERVICES CTR	1400	BROADWAY	REDWOOD CITY	2 YEAR
475	MUFFLER EXPRESS	1414	EL CAMINO REAL	REDWOOD CITY	2 YEAR
476	PUTNAM LEXUS	390	CONVENTION	REDWOOD CITY	2 YEAR
477	SEAPORT LIFT STATION #2	501	GALVESTON	REDWOOD CITY	2 YEAR
478	FIRE STATION #12	3700	JEFFERSON	REDWOOD CITY	2 YEAR
479	ARYA GLOBAL CUISINE	885	MIDDLEFIELD	REDWOOD CITY	2 YEAR
480	ASCEND CLINICAL LLC	1400	INDUSTRIAL	REDWOOD CITY	5 YEAR

	Name	Street Number	Street Name	City	Frequency
481	WHIPPLE ARCO	504	WHIPPLE	REDWOOD CITY	2 YEAR
482	Lucky #745	200	Woodside	Redwood City	2 YEAR
483	ROYS CLEANER	1100	EL CAMINO REAL	REDWOOD CITY	2 YEAR
484	O'Reilly Auto Parts #3474	2411	EL CAMINO REAL	Redwood City	2 YEAR
485	Whipple Shell	639	WHIPPLE	REDWOOD CITY	2 YEAR
486	Verizon Wireless Pulgas Massachusetts	2055	Woodside	Redwood City	2 YEAR
487	COSTCO WHOLESALE #1042	2300	MIDDLEFIELD	REDWOOD CITY	2 YEAR
488	A-ABCO RENTS & SELLS	1050	CHARTER	REDWOOD CITY	5 YEAR
489	HOOVER SCHOOL	701	CHARTER	REDWOOD CITY	2 YEAR
490	AARTI Petroleum	503	WHIPPLE	REDWOOD CITY	2 YEAR
491	DENNYS	1201	BROADWAY	REDWOOD CITY	2 YEAR
492	SAKURA 2	373	MAIN	REDWOOD CITY	2 YEAR
493	CARLS JR RESTAURANT	1001	VETERANS	REDWOOD CITY	2 YEAR
494	KINGS UNION 76	975	WOODSIDE	REDWOOD CITY	2 YEAR
495	AUTOHAUS KLAUS NAGEL	1690	INDUSTRIAL	REDWOOD CITY	2 YEAR
496	SANZ BODY SHOP	3150	ROLISON	REDWOOD CITY	2 YEAR
497	SIZZLER	1011	VETERANS	REDWOOD CITY	2 YEAR
498	Rite Aid #5892	340	Woodside	Redwood City	2 YEAR
499	BRISTOL MYERS SQUIBB COMPANY	700	BAY	REDWOOD CITY	2 YEAR
500	AIRE SHEET METAL INC	1973	BAYSHORE	REDWOOD CITY	2 YEAR
501	TARGET T0321	2485	EL CAMINO REAL	Redwood City	2 YEAR
502	GENOMIC HEALTH INC	101	GALVESTON	REDWOOD CITY	2 YEAR
503	GENOMIC HEALTH INC	701	GALVESTON	REDWOOD CITY	2 YEAR
504	GENOMIC HEALTH	301	PENOBSCOT	REDWOOD CITY	2 YEAR
505	QUICKLY	300	WALNUT	REDWOOD CITY	2 YEAR
506	QUALITY AUTO BODY & PAINT	3012	SPRING	REDWOOD CITY	2 YEAR
507	SEQUOIA YACHT CLUB	441	SEAPORT	REDWOOD CITY	2 YEAR
508	FRANKLIN ST COFFEE	1053	EL CAMINO REAL	REDWOOD CITY	2 YEAR
509	EL GRULLENSE GRILL	2525	EL CAMINO REAL	REDWOOD CITY	2 YEAR
510	WHIPPLE AUTO SERVICE	503	WHIPPLE	REDWOOD CITY	2 YEAR
511	PACIFIC SHORES LIFT STATION #2	1855	SEAPORT	REDWOOD CITY	2 YEAR
512	REDWOOD SHORES STATION #15	333	TWIN DOLPHIN	REDWOOD CITY	2 YEAR
513	SMCO THHW	1400	BROADWAY	REDWOOD CITY	2 YEAR
514	SPECIALTYS CAFE AND BAKERY	701	CHESAPEAKE	REDWOOD CITY	2 YEAR
515	Kmart #4349	1155	Veterans	Redwood City	2 YEAR
516	CASTILLOS AUTO ELECTRIC	24	WILLOW	REDWOOD CITY	2 YEAR
517	THE PATTY SHACK	909	MAIN	REDWOOD CITY	2 YEAR
518	GUARDANT HEALTH	505	PENOBSCOT	REDWOOD CITY	2 YEAR
519	YUMI YOGURTS	947	EL CAMINO REAL	REDWOOD CITY	2 YEAR
520	HUDSON PACIFIC PROPERTIES	203	REDWOOD SHORES	REDWOOD CITY	2 YEAR
521	Kentucky Fried Chicken	204	EL CAMINO REAL	Redwood City	2 YEAR
522	PANADERIA Y RESTAURANTE GUATEMALTECA	1509	MAIN	REDWOOD CITY	2 YEAR
523	CARDIODX INC	600	SAGINAW	REDWOOD CITY	5 YEAR
524	DEXTERA SURGICAL INC	900	SAGINAW	REDWOOD CITY	5 YEAR
525	Impossible Foods, Inc.	600	GALVESTON	REDWOOD CITY	5 YEAR
526	Verizon Wireless Seaport East	1300	Seaport	Redwood City	5 YEAR
527	GENAPSYS, INC.	200	CARDINAL	REDWOOD CITY	5 YEAR
528	YOHO YOGURT	851	MIDDLEFIELD RD.	REDWOOD CITY	2 YEAR

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529	BOARDWALK LOTUS	629	BAIR ISLAND RD #216	REDWOOD CITY	2 YEAR
530	GO FISH POKE BAR 3	823	HAMILTON ST.	REDWOOD CITY	2 YEAR
531	ROCKN WRAPS	2053	BROADWAY SUITE B	REDWOOD CITY	2 YEAR
532	RADIOCAT INC.	934	CHARTER ST.	REDWOOD CITY	5 YEAR
533	SAGE CENTERS FOR VETERINARY SPECIALTY &	934	CHARTER ST.	REDWOOD CITY	5 YEAR
534	PULLMAN SAN FRANCISCO BAY	223	TWIN DOLPHIN DR.	REDWOOD CITY	5 YEAR
535	BELL'ARTE DENTAL LABORATORY	133	ARCH ST. # 6	REDWOOD CITY	5 YEAR
536	REDWOOD CITY HOTELS, LLC	600	BAIR ISLAND RD.	REDWOOD CITY	5 YEAR
537	MONNEY	850	2ND AVE.	REDWOOD CITY	5 YEAR
538	CVS/PHARMACY # 16112	2485	EL CAMINO REAL	REDWOOD CITY	5 YEAR
539	LARNAUTI INC.	416	EL CAMINO REAL	REDWOOD CITY	2 YEAR
540	NATERA, INC.	1300	ISLAND DR. # 202	REDWOOD CITY	5 YEAR
541	HOME SMILES, INC	1526	STAFFORD ST. # A	REDWOOD CITY	5 YEAR
542	OPTIMAL TOWING	1612	EL CAMINO REAL	REDWOOD CITY	2 YEAR
543	FRIDA'S COLIBRI RESTAURANT & BAR LLC	820	VETERANS BLVD. # B	REDWOOD CITY	2 YEAR
544	WOODSIDE DELICATESSEN	1453	WOODSIDE RD.	REDWOOD CITY	2 YEAR
545	LAND ROVER REDWOOD CITY	515	EL CAMINO REAL	REDWOOD CITY	2 YEAR
546	STATUS AUTO INC.	3005	SPRING ST. SUITE A	REDWOOD CITY	2 YEAR
547	GUANATOS SNACKS	628	WOODSIDE RD.	REDWOOD CITY	2 YEAR
548	OLD PORT LOBSTER SHACK	20	WOODSIDE PLAZA	REDWOOD CITY	2 YEAR
549	WHIT NEWTON YACHTS	101	WESTPOINT HARBOR DR.	REDWOOD CITY	2 YEAR
550	COLLISION KINGS LLC	1612	EL CAMINO REAL	REDWOOD CITY	2 YEAR
551	HANANI & KHOURY INC	2021	BROADWAY	REDWOOD CITY	2 YEAR
552	ACHAOGEN INC	220	PENOBSCOT DR. SUITE A	REDWOOD CITY	5 YEAR
553	IMPOSSIBLE FOODS INC	400	SAGINAW DR.	REDWOOD CITY	5 YEAR
554	SPIROX	595	PENOBSCOT DR.	REDWOOD CITY	5 YEAR
555	ARRINEX, INC.	1755	E. BAYSHORE RD. # 4A	REDWOOD CITY	5 YEAR
556	ROLLED UP CREAMERY	2621	BROADWAY	REDWOOD CITY	2 YEAR
557	REDWOOD CITY MART	699	EL CAMINO REAL	REDWOOD CITY	2 YEAR
558	BONFARE MARKET #41	3215	OAK KNOLL DR.	REDWOOD CITY	5 YEAR
559	KARIUS, INC.	975	ISLAND DR.	REDWOOD CITY	5 YEAR
560	SMC CAFETERIA	400	COUNTY CENTER	REDWOOD CITY	2 YEAR
561	HOM KOREAN KITCHEN INC.	2639	BROADWAY	REDWOOD CITY	2 YEAR
562	TEASPOON	2361	BROADWAY	REDWOOD CITY	2 YEAR
563	M.J. FOOD & LIQUOR	850	BREWSTER AVE.	REDWOOD CITY	5 YEAR
564	FROM PERU CATERING	1500	INDUSTRIAL WAY	REDWOOD CITY	2 YEAR
565	BOLT BIOTHERAPEUTICS INC	640	GALVESTON DR.	REDWOOD CITY	5 YEAR
566	REDWOOD CITY AUTO SALES	155	EL CAMINO REAL	REDWOOD CITY	2 YEAR
567	RANZAN USA	921	MAIN ST.	REDWOOD CITY	2 YEAR
568	NORCAL MATERIALS INC. DBA HARBOR READY	123	SEAPORT BLVD.	REDWOOD CITY	2 YEAR
569	INGENUITY FOODS INC.	234	MARSHALL ST. SUITE 5	REDWOOD CITY	2 YEAR
570	AIR CARE SMOG TEST CENTER	75	EL CAMINO REAL	REDWOOD CITY	2 YEAR
571	MOPHO	3716	FLORENCE ST.	REDWOOD CITY	2 YEAR
572	MENLO THERAPEUTICS INC	200	CARDINAL WAY 2ND FLOOR	REDWOOD CITY	5 YEAR
573	ZADNA RESTAURANT	2653	BROADWAY	REDWOOD CITY	2 YEAR
574	ORENCHI	2432	BROADWAY	REDWOOD CITY	2 YEAR
575	PASHA INC	837	JEFFERSON AVE.	REDWOOD CITY	2 YEAR
576	MARISCOS EL SANIGNACENSE	1726	EL CAMINO REAL	REDWOOD CITY	2 YEAR

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577	WOODSIDE GAS & C-STORE	975	WOODSIDE RD.	REDWOOD CITY	2 YEAR
578	OTOKO SUSHI	240	REDWOOD SHORES PKWY.	REDWOOD CITY	2 YEAR
579	CORCIS AUTOMOTIVE	540	EL CAMINO REAL # B	REDWOOD CITY	2 YEAR
580	SEANET RWC LLC	20	WOODSIDE PLAZA	REDWOOD CITY	2 YEAR
581	ISSIMI INC	1830	INDUSTRIAL WAY	REDWOOD CITY	2 YEAR
582	PENNINSULA LIQUORS	717	EL CAMINO REAL	REDWOOD CITY	5 YEAR
583	A & L AUTO REPAIRS	94	LAUREL ST.	REDWOOD CITY	2 YEAR
584	PRENAV	121	BEECH ST.	REDWOOD CITY	5 YEAR
585	HIKARI SUSHI	490	EL CAMINO REAL # 140	REDWOOD CITY	2 YEAR
586	TAQUERIA APATZINGAN Y MARK	739	CHESTNUT ST.	REDWOOD CITY	2 YEAR
587	HELEN'S CLEANERS	260	WOODSIDE PLAZA	REDWOOD CITY	2 YEAR
588	WEST PARK FARM AND SEA	855	MIDDLEFIELD RD.	REDWOOD CITY	2 YEAR
589	PHOENIX CEMENT COMPANY	876	SEAPORT BLVD.	REDWOOD CITY	2 YEAR
590	ARGUELLO WASH & FOLD LAUNDROMAT	717	ARGUELLO ST.	REDWOOD CITY	2 YEAR
591	ROCKY'S MOBILE SERVICE	1125	SHASTA ST.	REDWOOD CITY	2 YEAR
592	PRO CARE AUTO CLINIC	1704	INDUSTRIAL WAY	REDWOOD CITY	2 YEAR
593	5 STARS AUTO BODY REPAIR	1175	SHASTA ST.	REDWOOD CITY	2 YEAR
594	AMBYS MEDICINE	123	SAGINAW DR.	REDWOOD CITY	5 YEAR
595	DHABA XPRESS	312	ARGUELLO ST.	REDWOOD CITY	2 YEAR
596	BAP	2090	BROADWAY	REDWOOD CITY	2 YEAR
597	MELLADO MOBILE TIRE	249	EL CAMINO REAL	REDWOOD CITY	2 YEAR
598	KARTOS THERAPEUTICS, INC	275	SHORELINE DR. # 100	REDWOOD CITY	5 YEAR
599	HYPATIA'S CUISINE	1714	EL CAMINO REAL	REDWOOD CITY	2 YEAR
600	RAY'S AUTO REPAIR	2333	EL CAMINO REAL	REDWOOD CITY	2 YEAR
601	A B&W MARKET	3115	JEFFERSON AVE.	REDWOOD CITY	5 YEAR
602	UNA MAS MEXICAN GRILL RWS LLC	224	REDWOOD SHORES PKWY.	REDWOOD CITY	2 YEAR
603	ONIGILLY LLC	1757	E. BAYSHORE RD. SUITE B1	REDWOOD CITY	2 YEAR
604	MAIZZ.CO	851	EL CAMINO REAL	REDWOOD CITY	2 YEAR
605	SRDC, INC.	199	SEAPORT BLVD	REDWOOD CITY	ANNUAL